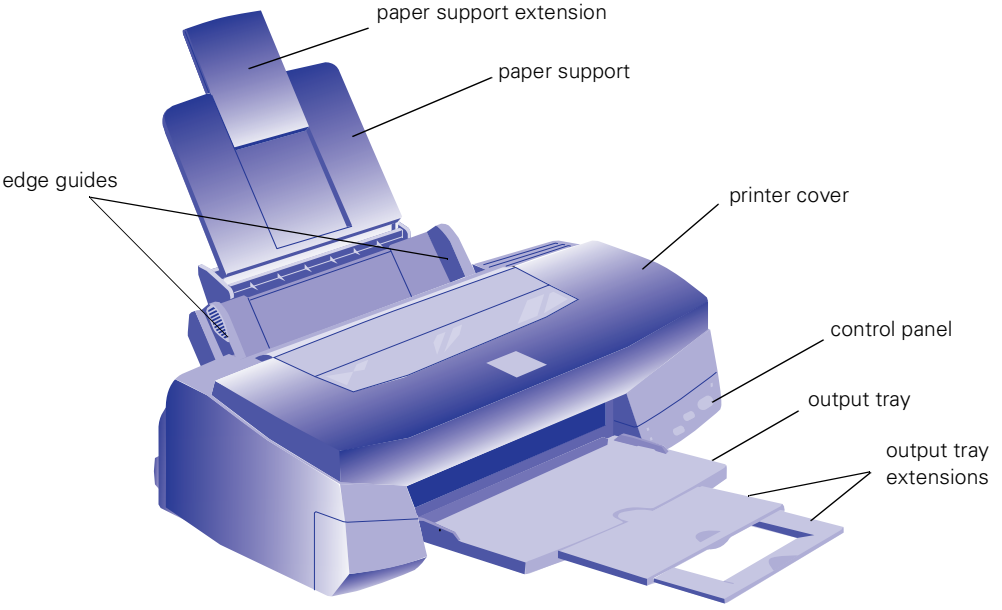
EPSON®

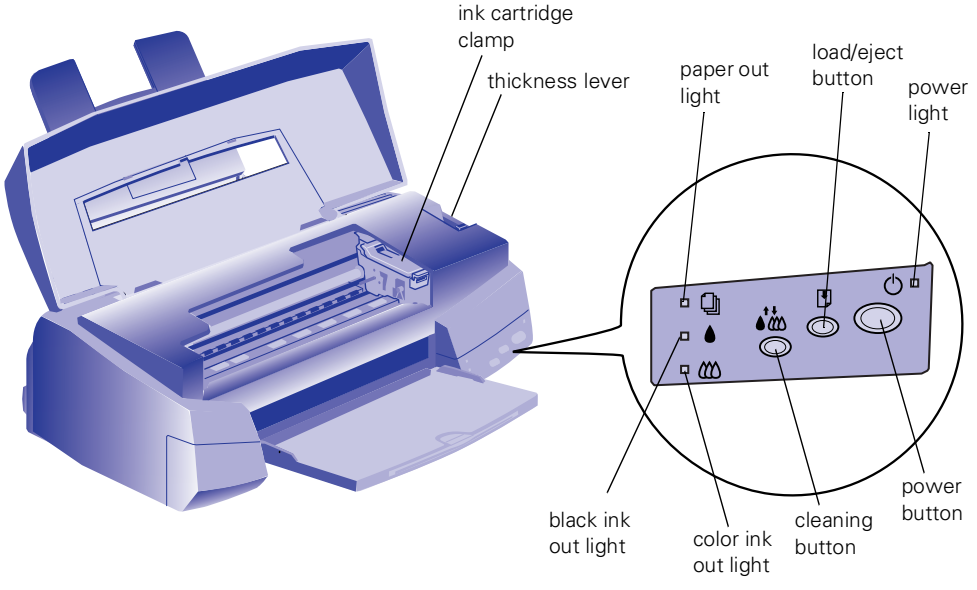
EPSON STYLUS®

Photo 700

User's Guide

Printed on recycled paper with at least 10% post-consumer content


paper support extension
paper support
edge guides
printer cover
control panel
output tray
output tray
extensions


ink cartridge
clamp
thickness lever
paper out
light
load/eject
button
power
light
power
button
black ink
out light
color ink
out light
cleaning
button

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3/98

FCC Compliance Statement
For United States Users

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio or television reception. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio and television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures.

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

WARNING

The connection of a non-shielded equipment interface cable to this equipment will invalidate the FCC Certification of this device and may cause interference levels which exceed the limits established by the FCC for this equipment. It is the responsibility of the user to obtain and use a shielded equipment interface cable with this device. If this equipment has more than one interface connector, do not leave cables connected to unused interfaces. Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

For Canadian Users

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le materiel brouilleur du Canada.

Contents

Introduction

Windows System Requirements 2
Macintosh System Requirements 2
How To Use Your Manuals 3
    Warnings, Cautions, Notes, and Tips 4
Where To Get Help 5
ENERGY STAR Compliance 6
    Energy-saving Tips 7
Important Safety Instructions 7

1 Basic Printing

Printing from Windows 1-1
    Setting Printer Options from Windows Applications 1-2
    Setting Default Printer Options 1-4
    Checking Printer Status 1-6
Choosing Paper and Other Media 1-10
What To Do When the Printer Lights Flash 1-11

2 Custom Printing

Using Predefined Advanced Settings 2-2
Customizing Print Quality and Special Effects 2-4
Customizing Color Settings 2-8
Using ColorSync on the Macintosh 2-10

Selecting Paper Size and Orientation Options 2-12
Selecting Paper Options in Windows 2-12
Selecting Paper Options on a Macintosh 2-17
Selecting Print Layout Options 2-20
Choosing Print Layout Options in Windows 2-21
Choosing Print Layout Options on a Macintosh 2-27
Saving Custom Settings 2-33
Redefining Custom Settings 2-34
Deleting Custom Settings 2-35

3 Printing on Special Media
Using Special Media 3-2
Additional Media Loading Guidelines 3-3
Envelopes 3-5
EPSON Photo Quality Ink Jet Cards 3-6
EPSON Photo Paper (4 x 6) 3-6
EPSON Ink Jet Transparencies 3-8
Panoramic Photo Paper and Banners 3-8
Loading Panoramic or Banner Paper 3-9
Printing a Panoramic Image from Windows 3-10
Printing a Panoramic Image from a Macintosh 3-11

4 Managing Print Jobs
Managing Print Jobs in Windows 95 4-1
Selecting the Speed & Progress Options 4-2
Using the Spool Manager 4-4
Using Status Monitor 2 4-5
Managing Print Jobs in Windows 3.1 4-11
Using the Spool Manager 4-11
Managing Print Jobs in Windows NT 4.0 4-13

Managing Print Jobs on a Macintosh 4-13
Using Monitor3 4-14
Using the Macintosh Status Monitor 4-16
Selecting Configuration Options 4-17

5 Maintenance and Transportation

Cleaning the Print Head 5-1
Using the Head Cleaning Utility 5-2
Using the Control Panel 5-3
Examining the Nozzle Check Pattern 5-4
Replacing an Ink Cartridge 5-4
Removing an Empty Ink Cartridge 5-5
Installing the New Cartridge 5-6
Replacing an Outdated Ink Cartridge 5-7
Aligning the Print Head 5-8
Cleaning the Printer 5-9
Transporting the Printer 5-9

6 Troubleshooting

Diagnosing Problems 6-1
Checking the Control Panel Lights 6-2
Running a Printer Check 6-3
Using the Printer and Option Information Utility 6-4
Uninstalling Printer Software 6-5
Improving Print Quality 6-7
Solving Printing Problems 6-9
Solving Printer Software Problems 6-12
Fixing Paper Problems 6-15
Solving Miscellaneous Printout Problems 6-17

A Network Printing

Network Printing in Windows 95 A-1
Network Printing in Windows 3.1 A-3
Setting Up the Print Server in Windows 3.1 A-4
Setting Up Client Systems in Windows 3.1 A-4
Network Printing in Windows NT 4.0 A-5

B Technical Specifications

Printing B-1
Paper B-2
Ink Cartridge B-5
Mechanical B-6
Electrical B-6
Environmental B-7
Safety Approvals B-7
Initialization B-7
Interface B-8

Glossary

Index

Introduction

Your EPSON Stylus® Photo 700 printer is the ideal output device for full-color layout proofs, digital photography, photo editing—or any imaging project you create on your computer. The printer comes with these features:

- Exclusive Micro Piezo™ ink jet technology for smaller, cleaner dots
- Super MicroDot™ technology for superior image quality
- Six-color printing for photo reproduction quality on plain paper or a variety of special media
- Fastest color print speeds in its class
- Compatibility with Microsoft® Windows® and Macintosh®
- PhotoEnhance2 (PhotoEnhance™ in Windows 3.1) for optimizing the contrast, saturation, and brightness of your pictures at the touch of a button
- Resolutions up to 1440 × 720 dpi
- EPSON Digital PhotoLab,™ which includes software for editing, compositing, and cataloging your digital photos

Windows System Requirements

To use your printer and its software with a PC, your system should have:

- An IBM® compatible PC with at least a 486 DX2/66 MHz or faster processor (Pentium® 100 or equivalent recommended)
- Windows 3.1x, Windows 95 or later, or Windows NT 4.0
- At least 16MB of RAM (20MB recommended)
- At least 50MB of free hard disk space for storing images (100MB recommended)
- VGA, Super VGA, or better display adapter and monitor
- Double-speed CD-ROM drive (quad-speed or faster recommended)
- A shielded, twisted-pair parallel printer cable (6 to 10 feet long) to connect your computer to the printer; the cable must have a D-SUB, 25-pin, male connector for your computer and a 36-pin, Centronics® compatible connector for the printer.

Note:
If you don't have a CD-ROM drive, you can get the printer driver software on diskettes or download it through your modem. See your *Getting Started* guide for details.

Macintosh System Requirements

To use your printer and its software with a Macintosh, your system should have:

- Any Macintosh or Power Macintosh model except early models such as the Macintosh Classic, Macintosh +, Macintosh 512, or PowerBook™ 100
- System 7.1 or later (7.5 or later recommended)
- At least 16MB of built-in RAM (20MB is recommended)
- At least 50MB of free hard disk space for storing images (100MB recommended)
- 13-inch RGB or better display

- Double-speed CD-ROM drive (quad-speed or faster recommended)
- Standard Apple® System Peripheral-8 cable or equivalent (RS-422, 8-pin mini DIN male/male, Belkin F2V024 recommended)

How To Use Your Manuals

To set up your printer, see the *Getting Started* guide. This *User's Guide* contains the following information:

Chapter 1 covers the basics of printing with Windows or Macintosh.

Chapter 2 tells you how to print special projects with custom settings for print quality, color management, and distinctive layouts.

Chapter 3 gives guidelines for selecting and using the right paper or other media for your print job and instructions for printing panoramic images.

Chapter 4 explains how to manage print jobs and check printer status.

Chapter 5 gives instructions for replacing ink cartridges, cleaning and aligning the print heads, and cleaning and transporting the printer.

Chapter 6 provides solutions for any problems you may have.

Appendix A explains how to set up your computer and printer for network printing.

Appendix B provides the technical details of your printer, ink cartridges, and EPSON media.

A **Glossary** and an **Index** are included at the end of the book.

Warnings, Cautions, Notes, and Tips

You'll find this information throughout your manual:

Warnings must be followed carefully to avoid bodily injury.

Cautions must be observed to avoid damage to your equipment.

Notes contain important information about your printer.

Tips contain additional hints for great printing.

Where To Get Help

EPSON provides technical assistance through electronic support services and automated telephone services 24 hours a day. The following tables list the contact information:

Electronic support services

Service	Access
World Wide Web	From the Internet, you can reach EPSON's Home Page at **http://www.epson.com**.
EPSON Internet FTP Site	If you have Internet FTP capability, use your Web browser (or other software for FTP downloading) to log onto **ftp.epson.com** with the user name **anonymous** and your e-mail address as the password.
EPSON Download Service	You can call the EPSON Download Service at **(800) 442-2007**. Set your communications software to 8 data bits, 1 stop bit, no parity. Modem speed can be up to 28.8 Kbps.
EPSON Forum on CompuServe®	Members of CompuServe can type **GO EPSON** at the menu prompt to reach the Epson America Forum. For a free introductory CompuServe membership, call (800) 848-8199 and ask for representative #529.

Automated telephone services

Service	Access
EPSON SoundAdvice℠	For pre-recorded answers to commonly asked questions about EPSON products 24 hours a day, seven days a week, call **(800) 442-2110**.
EPSON FaxAdvice™	Access EPSON's technical information library by calling **(800) 442-2110**. You must provide a return fax number to use this service.
EPSON Referral Service	For the location of your nearest Authorized EPSON Reseller or Customer Care Center, call **(800) 442-2110**.

Note:
If you need help using other manufacturers' software with an EPSON product, see the documentation for that software for technical support information.

To speak to a technical support representative, dial **(310) 533-4018** (U.S.) or **(905) 709-2567** (Canada), 6 AM to 8 PM, Pacific Time, Monday through Friday and 7 AM to 4 PM, Saturday and Sunday. Toll or long distance charges may apply.

Before you call, please have the following information ready:

- Product name
- Product serial number
- Computer configuration
- Description of the problem

You can purchase ink cartridges, paper, manuals, accessories, and parts from EPSON Accessories at **(800) 873-7766** (U.S. sales only). In Canada, please call **(800) 873-7766** for dealer referral.

ENERGY STAR Compliance

As an ENERGY STAR Partner, EPSON has determined that this product meets the ENERGY STAR guidelines for energy efficiency.

The EPA ENERGY STAR Office Equipment program is a voluntary partnership with the computer and office equipment industry to promote the introduction of energy-efficient personal computers, monitors, printers, fax machines, and copiers in an effort to reduce air pollution caused by power generation.

Energy-saving Tips

Here are a few tips you can use to be even more energy-wise:

- If your monitor isn't ENERGY STAR compliant, turn it off when you're not using it.
- Turn off your computer, printer, and monitor each day when you are done using them.
- Use the print preview option in your software so you can catch errors before you print something.
- Send e-mail rather than distributing memos. Not only is this faster, but you'll save paper and storage space too.

Important Safety Instructions

Before using your printer, read the following safety instructions to make sure you use the printer safely and effectively.

- Always use the power switch to turn the printer on or off. Never use an external switch—such as a power strip—to turn off the printer.
- Turn off and unplug the printer before cleaning. Clean with a damp cloth only. Do not spill liquid on the printer.
- Do not place the printer on an unstable surface or near a radiator or heating vent.
- Do not block or cover the openings in the printer's cabinet or insert objects through the slots.
- Use only the type of power source indicated on the printer's label.
- Connect all equipment to properly grounded power outlets. Avoid using outlets on the same circuit as photocopiers or air control systems that regularly switch on and off.

- Place the printer near a wall outlet where the plug can be easily unplugged.

  Placez l'imprimante près d'une prise de contacte où la fiche peut être débranchée facilement.

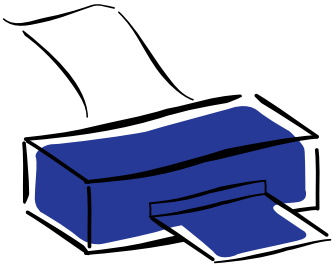
- Do not let the power cord become damaged or frayed.
- If you use an extension cord with the printer, make sure the total ampere rating of the devices plugged into the extension cord does not exceed the cord's ampere rating. Also, make sure the total of all devices plugged into the wall outlet does not exceed 15 amperes.
- Except as specifically explained in this *User's Guide*, do not attempt to service the printer yourself.
- Unplug the printer and refer servicing to qualified service personnel under the following conditions:

  If the power cord or plug is damaged; if liquid has entered the printer; if the printer has been dropped or the cabinet damaged; if the printer does not operate normally or exhibits a distinct change in performance. Adjust only those controls that are covered by the operating instructions.

Even if you are familiar with other types of printers, be sure to read through the following list of precautions before operating your ink jet printer:

- Do not put your hand inside the printer or touch the cartridge during printing.
- Under normal circumstances, ink will not come out of the cartridge. If it does get on your skin, wash it off with soap and water. If it gets in your eyes, flush them immediately with water.
- Keep ink cartridges out of the reach of children.
- Do not dismantle the ink cartridges or try to refill them. This could result in damage to the print head.
- Once you install an ink cartridge, do not open the clamp or remove the cartridge except to replace it with a new one. The cartridge may become unusable otherwise.

- Install the ink cartridge immediately after you remove it from its foil package. Leaving the cartridge unpacked for a long time before use may result in reduced print quality.
- Do not use an ink cartridge beyond the date printed on the cartridge carton. For best results, use up the ink cartridges within six months of installing them.
- Do not shake an ink cartridge; this can cause leakage.
- Always turn the printer off using the ⏻ power button. When this button is pressed, the ⏻ power light flashes briefly then goes out. Do not unplug the printer or turn off the power to the outlet until the ⏻ power light is off.
- Before transporting the printer, make sure the print head is capped in the far right position and the ink cartridges are in place.



1 Basic Printing

It's easy to print with your new EPSON Stylus Photo 700. First set up and install the printer software, following the instructions in the *Getting Started* guide. Then read this chapter to learn about:

- Printing from Windows
- Printing from a Macintosh
- Choosing paper and other media
- What to do when the printer lights flash

Printing from Windows

To print from your Windows application, click the print icon or choose Print from the File menu. You can then choose which pages to print, the number of copies, and other options. The settings that describe your print job—whether you want to use color or black ink, for example—are part of your printer driver software.

The following sections tell you how to set printer options from Windows applications, how to change the default printer settings, and how to check your printer's status.

Note:
The settings you select through your application usually apply only until you exit that application.

Setting Printer Options from Windows Applications

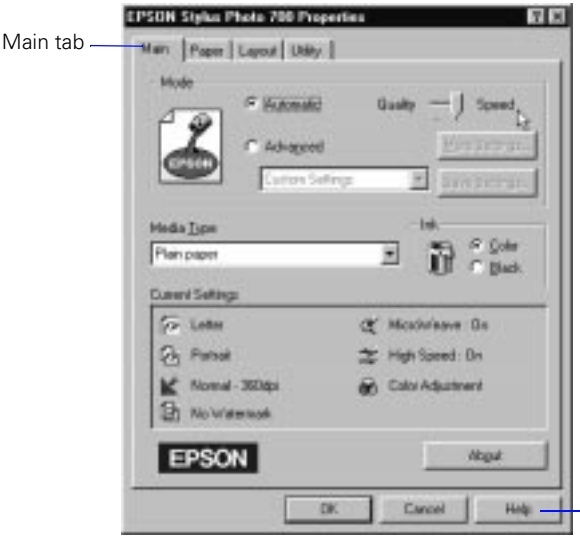
This section describes the settings you'll need to make for all your everyday printouts. See Chapter 2 for information about special settings like PhotoEnhance2 (PhotoEnhance in Windows 3.1).

Follow these steps to check printer settings from your graphics application or other Windows software:

1. Choose **Print**, **Print Setup**, or **Page Setup** from the File menu. You see a printing dialog box.

   If you choose **Print**, you first see a Print dialog box that contains the settings you change most often, including the number of copies and the pages you want printed.

2. Make sure your EPSON Stylus Photo 700 printer is selected, and then click the **Printer**, **Setup**, **Properties**, or **Options** button. (You may have to click a sequence of these buttons.) You see a dialog box like the following:



   If you don't see the dialog box shown above, click the **Main** tab.

Tip

For more information about printer settings, click the Help button. In Windows 95 and Windows NT 4.0, you can right-click any item on the screen and then click What's This?

3. Make sure the Mode option is set to **Automatic**. This lets the printer software determine the best settings for your print job and is the easiest way to get good printing results on all types of paper.

4. Choose the **Media Type** you want to print on from the following list (click the arrow button to scroll through the list). If you are not sure which setting to select, refer to the table on page 3-2.

   - Plain paper
   - 360 dpi Ink Jet Paper
   - Photo Quality Ink Jet Paper
   - Photo Paper
   - Photo Quality Glossy Film
   - Ink Jet Transparencies

   Your media choice may restrict the available range of settings such as print quality or resolution.

If you're printing grayscale images, choose Black as the Ink setting for faster output or choose Color for higher quality.

5. For the Ink setting, choose **Color** or **Black**.

6. Set the slider in the Mode box to **Quality** or **Speed**. This lets you choose between the highest resolution or the fastest printing for the media you're using. (The slider is not available when certain media types are selected.)

7. If necessary, click the **Paper** tab and choose your paper size, number of copies, orientation, and printable area. See page 2-12 for detailed instructions.

8. If you're using Windows 95 or Windows NT 4.0, click the **Layout** tab and check the proportional printing, page layout (Windows 95 only), and watermark options to make sure they're correct for your print job. See page 2-20 for details.

9. Click OK when you're finished checking your settings.

10. Click OK or Print in your application's printing dialog box. You may need to click a sequence of these buttons, depending on the application you are using.

    While your document is printing, the EPSON Progress Meter (Windows 95) or the EPSON Despooler dialog box (Windows 3.1) appears, showing the printing progress and the status of your printer. (See "Checking Printer Status" on page 1-6 for more information.)

Note:
Some application settings override default printer settings (such as Paper Size or Orientation), so it's a good idea to check the settings in your application before you print.

Setting Default Printer Options

When you change printer settings through your software application, the settings apply only to the application you're using. To adjust the default settings for all your Windows applications, you can access the dialog box through the Windows 95 or Windows NT 4.0 Printers utility or the Windows 3.1 Control Panel.

Make sure all your software applications are closed before you start. If not, you'll have to close and then reopen them to have the new default settings take effect.

Setting Default Options in Windows 95 or Windows NT 4.0

Follow these steps:

Note:
You can access the default Windows NT printer software settings only if you have the appropriate network access privileges, such as Administrator or Power User.

1. Click **Start**, point to **Settings**, and then select **Printers**.
2. Right-click the **EPSON Stylus Photo 700** icon in the **Printers** window.
3. Select **Properties** (**Document Defaults** in Windows NT). Then click the **Main** tab.

   You see the printer settings dialog box, as shown on page 1-2. Any changes you make will become the default settings for all your applications and documents. Click **OK** when finished.

Setting Default Options in Windows 3.1

Follow these steps:

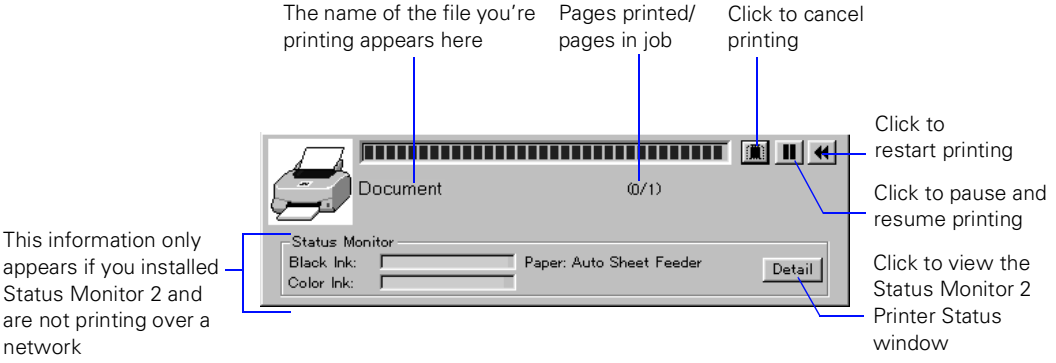
1. Double-click the **Control Panel** icon in the Main group.
2. Double-click the **Printers** icon.
3. Select **EPSON Stylus Photo 700** from the list of installed printers and click **Setup**. You see the printer settings dialog box, similar to the one shown on page 1-2.
4. Make any changes you want to become the default settings for all your applications and documents, and click **OK** when you are finished.

Checking Printer Status

While your document is printing, your printer software reports how the job is doing. See the section for your operating system below.

Windows 95

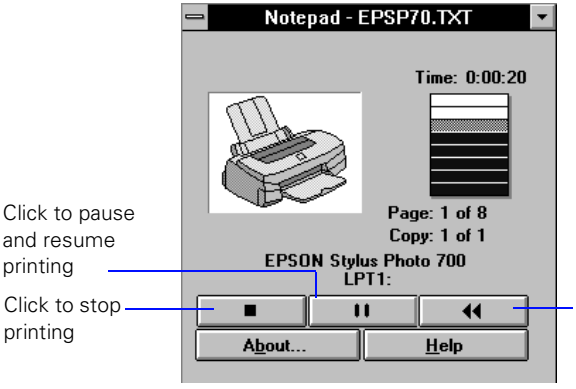
After you send a print job in Windows 95, the Progress Meter dialog box appears on your screen:



The Progress Meter shows the progress of your print job and the status of your printer. You can use the buttons to cancel, pause, or restart your print job. You can select whether to display the Progress Meter dialog box or not; see page 4-2 for instructions. If you installed Status Monitor 2, you also see information about how much ink you have left. See page 4-5 for more information about Status Monitor 2.

Windows 3.1

After you send your print job, the EPSON Despooler dialog box appears on your screen:



This dialog box shows the progress of your print job and the status of your printer. If you run out of paper while printing, for example, the Despooler warns you. You can use the buttons to cancel, pause, or restart your print job.

Windows NT 4.0

Windows NT 4.0 servers and workstations include a messenger service to alert you to printer errors or let you know when a print job is finished. If you have appropriate network access privileges or you're controlling printing from the server, you can also cancel, pause, or restart print jobs and set other options. See your Windows NT documentation for details.

Printing from a Macintosh

When you print with a Macintosh, you need to check the page setup for documents in each application you use. You can then click the print icon or choose Print from the File menu. You see a dialog box that lets you choose the settings that describe your print job, such as Media Type.

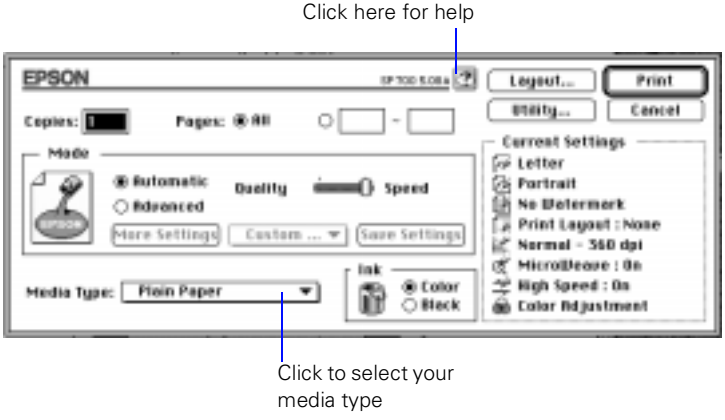
This section describes the settings you'll need to make for all your everyday printouts. See Chapter 2 for information about advanced settings.

Follow these steps to print from your word processor or other Macintosh application:

1. Choose **Page Setup** from the File menu. You see the Page Setup dialog box.

2. Choose your paper size and other page setup options and click **OK**. See page 2-17 for details.

3. Choose **Print** from the File menu or click the print icon in your application. You see a dialog box like the following:



4. Choose the number of copies and indicate which pages you want to print.

5. Make sure the Mode option is set to **Automatic**. The printer software determines the best settings for your print job. This is the easiest way to get good printing results on all types of paper.

Note:
On the Macintosh, printer settings are saved with your document, but you can't save them from one application to another. You'll have to check your settings each time you print from a new application.

If you want to reuse settings, you can create custom setting groups in your printer software that you can select each time you open an application. See page 2-33 for details.

6. Choose the **Media Type** you want to print on from the following list. If you are not sure which setting to select, refer to the table on page 3-2.

   - Plain Paper
   - 360 dpi Ink Jet Paper
   - Photo Quality Ink Jet Paper
   - Photo Paper
   - Photo Quality Glossy Film
   - Ink Jet Transparencies

   The type of media you choose determines the print quality or resolution you can use.

If you're printing grayscale images, choose Black as the Ink setting for faster output or choose Color for higher quality.

7. Choose **Color** or **Black** ink.

8. Set the slider in the Mode box to **Quality** or **Speed**. This lets you choose between the highest resolution or fastest printing for the media you're using. (The slider is not available for certain media types.)

9. Click the **Layout** button and check the print order (see page 2-20) proportional printing, page layout, and watermark options (see page 2-27) to make sure they're correct for your print job. Then click **OK** to return to the printer settings dialog box.

10. Click **Print** when you're finished checking your settings.

    If you chose background printing when you set up your printer, you can continue working while your document is printing. If you want to check the status of your print job, you can use EPSON Monitor3. See page 4-14 for details.

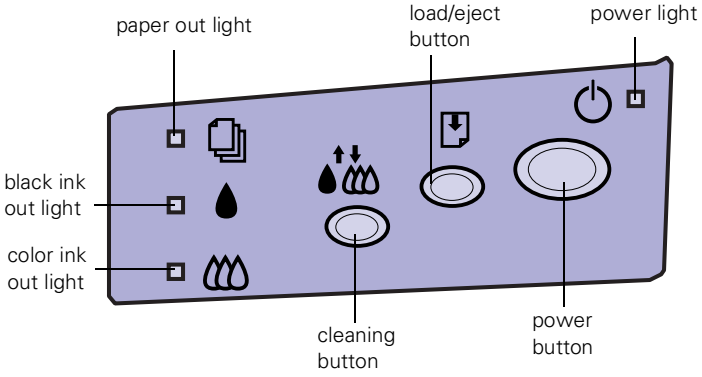
Choosing Paper and Other Media

You can use most types of paper with your printer, but you'll get better results with specially designed EPSON ink jet paper or other media. Following is a list of the media available for EPSON ink jet printers. See Chapter 3 for more information on using special paper and other media.

Media name	Size	Part number
EPSON 360 dpi Ink Jet Paper	Letter A4	S041060 S041059
EPSON High Quality Ink Jet Paper	Letter A4	S041111 S041117
EPSON Photo Quality Ink Jet Paper	Letter A4 Legal	S041062 S041061 S041067
EPSON Photo Quality Glossy Paper	Letter A4	S041124 S041126
EPSON Photo Quality Glossy Film	Letter A4 A6	S041072 S041071 S041107
EPSON Photo Paper	Letter A4 4 × 6 Panoramic (precut to 8.3 × 23.4 inches)	S041141 S041140 S041134 S041145
EPSON Ink Jet Transparencies	Letter A4	S041064 S041063
EPSON Photo Quality Ink Jet Cards	A6 8 × 10	S041054 S041122
EPSON Photo Stickers Kit EPSON Photo Stickers Refill	A6, 16 frames per sheet (includes software) A6, 16 frames per sheet	S041144-KIT S041144
EPSON Iron-On Cool Peel Transfer Paper	Letter Letter	S041153 (10 sheets) S041155 (50 sheets)
EPSON Photo Quality Self Adhesive Sheets	A4	S041106

To order EPSON papers and other media, contact your dealer or call EPSON Accessories at (800) 873-7766 (U.S. sales only). In Canada, please call (800) 873-7766 for dealer referral.

What To Do When the Printer Lights Flash



The four lights on your printer's control panel show the printer's status and alert you to problems like paper jams.

When the paper out light comes on, your paper ran out or is incorrectly loaded. Load paper in the sheet feeder and then press the load/eject button.

When the paper out light *flashes*, you have a paper jam. Take all of the paper out of the sheet feeder, reload the paper, then press the load/eject button. If the light continues to flash, turn off the printer and gently pull out any jammed paper.

or When an ink out light *flashes*, your ink supply is low. Make sure you have a replacement cartridge.

or When an ink out light comes on, you need to replace the ink cartridge. See Chapter 5 for instructions.

The power light is on when the printer is on. The power light *flashes* when the printer is receiving a print job or performing a maintenance operation such as cleaning a print head.

When the power and paper lights *flash* and the ink out lights are on, your printer has a carriage error. Turn off the printer by pressing the ⏻ power button; wait several seconds; then turn it on again. If this does not clear the error condition, contact EPSON as described in the Introduction.

When all the lights *flash*, your printer may have an internal error. Turn off the printer by pressing the ⏻ power button; wait several seconds; then turn it on again. If this does not clear the error condition, contact EPSON as described in the Introduction.

2 Custom Printing

When your photographs or other projects have special printing requirements, you can use the custom settings in your EPSON Stylus Photo 700 software. You can choose predefined settings or adjust individual options like brightness, contrast, saturation, and halftoning. For professional-quality color accuracy, you can use Image Color Matching (ICM) under Windows 95 or ColorSync™ on the Macintosh.

If you're using Windows 95, Windows NT 4.0, or a Macintosh, your printer software's layout options let you print almost any size image on your printer and add watermarks. In Windows 95 and Macintosh, you can also proof multiple pages on one sheet of paper.

This chapter includes the following information:

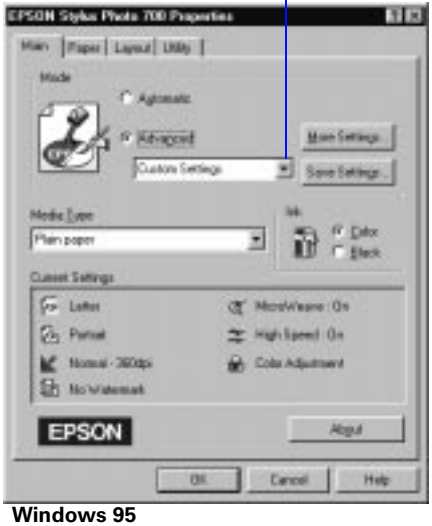
- Using predefined advanced settings
- Customizing print quality and special effects
- Customizing color settings
- Using ColorSync on the Macintosh
- Selecting paper size and orientation options
- Selecting print layout options
- Saving custom settings

Using Predefined Advanced Settings

Predefined settings provide an easy way to enhance your photos and fine-tune your printer's operation. Follow these steps to print with predefined settings:

1. Create your image or project in your application software.
2. Access the printer settings dialog box as described on page 1-2 (Windows) or page 1-7 (Macintosh).
3. Select **Color** or **Black** Ink.
4. Click **Advanced**, and then click the arrow button next to **Custom Settings** (Windows) or **Custom** (Macintosh) to display a list of project types.

Click **Advanced**, then click here to see a list of project types



Windows 95

Macintosh

5. Select the right setting for your project by following these guidelines. Not all media types are available when using some of these settings.

   - Advanced Photo
     For printing high-quality scanned photographs. Enables the Super MicroWeave setting, which may slow printing (see page 2-7 for details).
   - Photo
     For printing scanned photographs in less time. Increases the contrast of the image.
   - Text/Graph
     For printing graphics-intensive documents such as presentation pages with charts and graphs. Intensifies colors and lightens the midtones and highlights.
   - PhotoEnhance2
     or PhotoEnhance (Windows 3.1)
     For printing images captured using a video camera, digital camera, or scanner. Produces sharper images and more vivid colors by automatically adjusting the contrast, saturation, and brightness. Corrects for under- and over-exposure of the original image.
   - Text
     For faster printing of text-only documents on plain paper.
   - Economy
     For rough drafts of text only, on plain paper. Saves ink.
   - ICM (Windows 95 only)
     Automatically adjusts printout colors to match the colors on your screen.
   - ColorSync (Macintosh only)
     Automatically adjusts printout colors to match the colors on your screen. For more information, see page 2-10.

The Photo setting and the PhotoEnhance2 (PhotoEnhance on Windows 3.1) setting have similar effects. However, PhotoEnhance2 and PhotoEnhance intelligently analyze your image data; effects vary widely depending on your image. The Photo setting consistently increases contrast. You may have to experiment to choose the best setting for your needs.

Note:
Printing with Advanced Photo, PhotoEnhance2, or PhotoEnhance may take longer, depending on your image and computer system.

6. Choose the Media Type you want to print on. (If you're not sure which setting to select, see the table on page 3-2.) The available media are limited by the predefined setting you chose in step 5. For example, you can't use plain paper or transparencies with the ICM or ColorSync settings.

7. In Windows, check or change any necessary settings on the Paper and Layout (not available in Windows 3.1) tabs as described on page 2-12 and page 2-21.

   On a Macintosh, check or change any necessary settings in the Page Setup and Layout dialog boxes as described on page 2-17 and page 2-27.

8. When you're finished, click Print (Macintosh) or OK (Windows). If you're using Windows, click any other buttons that your application uses for printing.

After you customize your print settings for a special project, you can save them as a group. Then you can reuse them whenever you print a similar project. See page 2-33 for instructions.

Customizing Print Quality and Special Effects

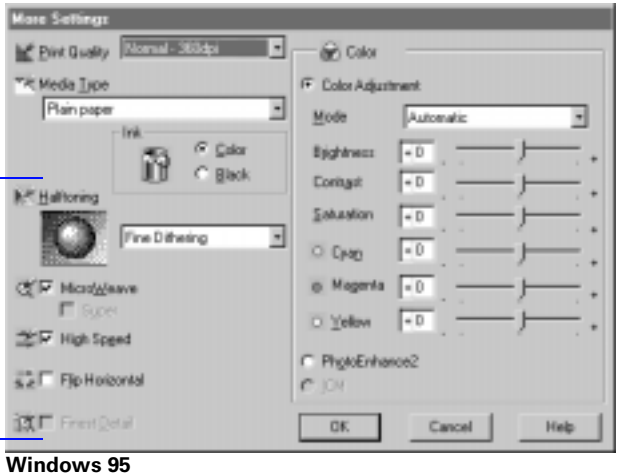
If you need the maximum control over your photos, or you want to experiment with special effects, you can adjust individual settings in your printer software. Follow these steps:

1. Create your image or project in your application software.

2. Access the printer settings dialog box as described on page 1-2 (Windows) or page 1-7 (Macintosh).

3. Click **Advanced**, and then click **More Settings**. You see the More Settings dialog box:

Some of these options are automatically set or disabled by other settings you choose



Windows 95

Some of these options are automatically set or disabled by other settings you choose

Macintosh

Note:
The Print Quality option you choose limits your choice of Media Types. Be sure to check both of these settings.

4. Choose one of the following **Print Quality** options:

   - **Economy**
     For low-resolution rough drafts on plain paper. Saves ink.
   - **Normal - 360 dpi**
     For printing on plain paper, transparencies, or 360 dpi ink jet paper.
   - **Fine - 720 dpi**
     For high-resolution output. Works best on photo quality media.
   - **SuperFine - 1440 dpi**
     For the highest-resolution output. Works only on photo quality media and photo paper.

5. Choose the **Media Type** and **Ink** settings you want to use, following the guidelines in Chapters 1 and 3.

Note:
Automatic mode selects the halftoning setting based on the data in your print job. Advanced mode preselects the halftone setting for each project type. The No Halftoning setting is available only when you select Black as the Ink setting.

6. Choose one of the following **Halftoning** options:

   - **No Halftoning**
     For black text only.
   - **Error Diffusion**
     For photographic images. Blends each dot of color with the surrounding dots.
   - **Fine Dithering**
     For charts, graphs, and other images that require precise, solid areas of bright colors. Arranges dots in orderly patterns.

7. Choose which of the following options you want for your project. Some of these settings are automatically selected or disabled by the Media Type and Print Quality (resolution) you choose.

   - MicroWeave
     For improved print quality. Prints graphic data in finer increments to eliminate unwanted banding effects (light horizontal lines). Always use for color printing.
   - Super MicroWeave
     This setting is available at 720 dpi when using plain paper, and at 1440 dpi when using photo quality media. Use if MicroWeave doesn't eliminate banding in your printout. Printing may be slower.
   - High Speed
     For fast, bidirectional printing at lower quality.
   - Flip Horizontal
     Prints a mirror image of your document. For example, use this setting when printing with iron-on transfer paper, so when you iron the printout onto a T-shirt or other item, it will read correctly.
   - Finest Detail
     For printing text, graphics, and line art with very sharp edges. Slows print speed and increases your system memory requirements.

8. Click OK if you're ready to return to the printer settings dialog box, or see the next section if you want to adjust your printer's color settings.

If vertical lines in your printout are misaligned when you use the High Speed setting, you may need to align the print heads. See Chapter 5 for instructions.

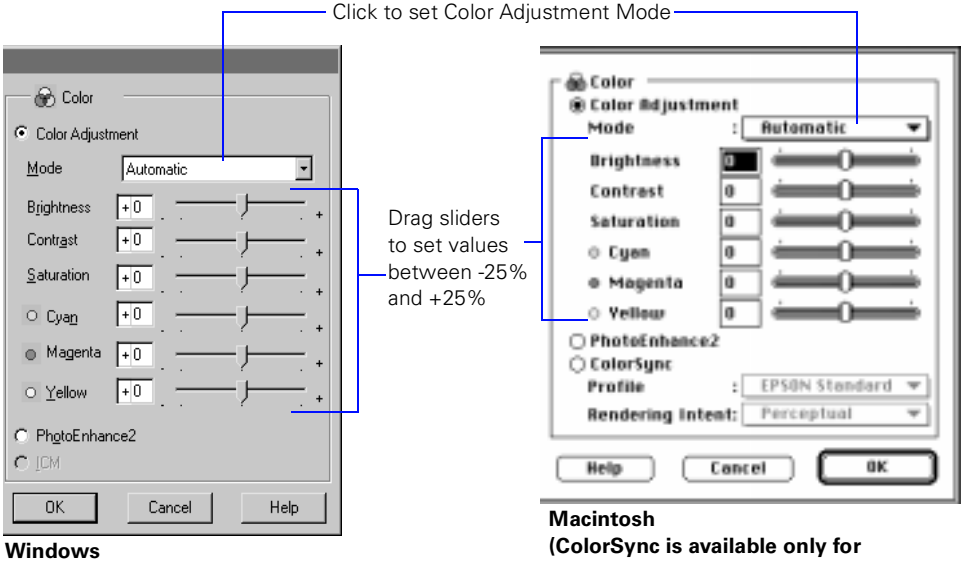
Customizing Color Settings

You can choose from several color adjustment modes or manually adjust brightness, contrast, and saturation. For professional color correction, you can set individual CMY color values. To improve brightness, contrast, and saturation when printing digital images, you can use PhotoEnhance2 or PhotoEnhance (Windows 3.1). To achieve the maximum color accuracy, you can use Image Color Matching (ICM) under Windows 95 or ColorSync on the Macintosh.

Follow these steps to customize your color settings:

1. Access the More Settings dialog box as described on page 2-4.

   The color settings appear on the right side of the dialog box, as shown:



Windows
(ICM is available only for Windows 95)

Macintosh
(ColorSync is available only for Macintosh)

2. Choose one of the following **Color Adjustment Modes**. If you are using ICM or ColorSync, these settings are not available.

   - **Automatic**
     Analyzes the color information in your image and optimizes color correction accordingly.
   - **Photo-realistic**
     For increased contrast in color photographs.
   - **Vivid**
     For printing graphics-intensive documents like presentation pages with charts and graphs. Intensifies colors and lightens the midtones and highlights.
   - **No Color Adjustment**
     Disables color adjustment. Use this setting if you wish to use a stand-alone color management utility.

3. If you want to specify individual color correction values, use the sliders to increase (drag right) or decrease (drag left) the settings listed below. (If you want to use the options described in step 4, you won't be able to specify individual color correction values.)

   - **Brightness**
     Makes your image lighter or darker.
   - **Contrast**
     Increases or decreases the difference between the bright or dark parts of an image.
   - **Saturation**
     Makes colors more vivid or less vivid.
   - **Cyan, Magenta, Yellow**
     Increases or decreases individual color values. The **Cyan** and **Magenta** settings also affect the light cyan and light magenta inks. Use these sliders to fine-tune the color balance in your printout.

Note:
When you choose PhotoEnhance2, PhotoEnhance, ICM, or ColorSync, all the other color options are preset.

4. Other image enhancement options include:

   - PhotoEnhance2 or PhotoEnhance (Windows 3.1)
     Produces sharper images and more vivid colors by automatically adjusting the contrast, saturation, and brightness. Corrects for over- or under-exposure of the original photograph. Does not affect text or vector graphics.
   - ICM (Windows 95 only)
     Automatically adjusts printout colors to match colors on the screen. Requires ICM monitor and printer profiles. Printer profiles are installed with your printer software. Check your monitor documentation to see whether your monitor includes ICM profiles.
   - ColorSync (Macintosh only)
     Automatically adjusts printout colors to match colors on the screen. See "Using ColorSync on the Macintosh" for more information.

5. Click OK to return to the printer settings dialog box.

Using ColorSync on the Macintosh

Every device you use for viewing or producing colors—your monitor, scanner, and printer—uses a different color technology. That's why it's difficult to get printed colors to match the colors displayed on your monitor.

Each device has its own gamut, or range of colors that it can reproduce. The Macintosh ColorSync system translates colors from one gamut to another so your monitor's colors match your printer's as closely as possible.

ColorSync uses profile information from each device—including your EPSON Stylus Photo 700—to achieve accurate color matching. First you have to make sure your monitor's profile is set. Then you can use your printer software to specify the exact method of gamut mapping (color matching) you want to use.

Follow these steps to set your monitor's ColorSync profile and use your printer software's ColorSync features:

1. Open **ColorSync System Profile** under **Control Panels** on the Apple menu.
2. Click the **Set Profile** button.
3. Select your monitor from the list, and then click **Select**.
4. Close **ColorSync System Profile**.
5. Access the More Settings dialog box as described on page 2-4.
6. Click **ColorSync**.
7. For **Profile**, choose **EPSON Standard**. Do not choose any other profiles that may be listed.
8. Choose one of the following options for **Rendering Intent**:
   - **Perceptual**
     Scales the displayed colors to fit within the printer's gamut. Maintains the relationship between colors.
   - **Saturation**
     For printing graphics-intensive documents like presentation pages with charts and graphs. Maintains the relative saturation of colors from one gamut to another.
   - **Colorimetric**
     For matching colors as precisely as possible. Maintains colors that fall within the gamut of both the monitor and printer, but may lose some detail in areas where the colors are outside the printer's density range.
9. Click **OK** to return to the printer settings dialog box.

Note:
The EPSON Standard profile is custom-designed for your printer. If you use a scanner or other color imaging equipment, you may have other profiles available.

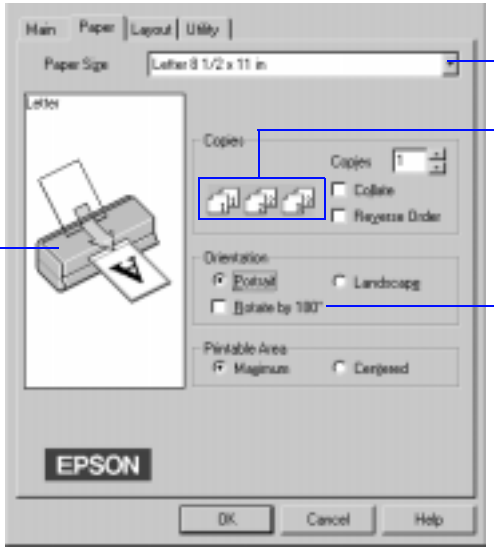
Selecting Paper Size and Orientation Options

Your printer can print on paper up to 9.5 inches wide and up to 44 inches long in either portrait or landscape orientation. If you print multiple page documents or multiple copies of documents, you can print the pages collated and in reverse order. You can even rotate the printed image by 180 degrees to bring it closer to the bottom of the paper (not available with Windows 3.1).

Selecting Paper Options in Windows

Follow these steps to select paper options on the Paper tab:

1. Create your image or project in your application software.
2. Access the printer software dialog box as described on page 1-2.
3. Click the Paper tab. You see the Paper dialog box:



Printer graphic reflects changes to Orientation and Printable Area settings

Click to select your Paper Size

Page graphics change to show Collate and Reverse Order settings (not available in Windows NT 4.0)

Rotate by 180° is not available with Windows 3.1

Note:
If the Proportional Printing setting is set to Normal and you select one of the paper sizes to the right that is marked with an asterisk (*), you see a dialog box asking you to select a paper size that fits your printer. See page 2-21 for more information.

4. Click the **Paper Size** drop-down list to select the size of paper you loaded in the printer.

   The sizes marked with an asterisk (*) are not available in Windows 3.1. They are larger than you can load in your printer and can be used only with the Proportional Printing setting on the Layout tab; see page 2-21 for more information.

   A4 210 × 297 mm
   B5 182 × 257 mm
   A5 148 × 210 mm
   Letter 8 1/2 × 11 in
   Legal 8 1/2 × 14 in
   Executive 7 1/4 × 10 1/2 in
   Half Letter 5 1/2 × 8 1/2 in
   A6 Index Card 105 × 148 mm
   Index card 5 × 8 in
   Index card 8 × 10 in
   Envelope #10 4 1/8 × 9 1/2 in
   Envelope DL 110 × 220 mm
   Envelope C6 114 × 162 mm
   Photo Paper 4 × 6 in
   Panoramic 210 × 594 mm
   B4 257 × 364 mm*
   B3 364 × 514 mm*
   Ledger 11 × 17 in*
   A3 297 × 420 mm*
   Super A3/B 329 × 483 mm*
   A2 420 × 594 mm*
   US C 17 × 22 in*
   User Defined (See page 2-15 for instructions.)

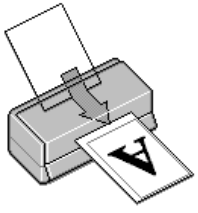
5. If you did not or cannot select the number of copies you want to print in your application program's Print dialog box, choose the number (from 1 to 99) in the **Copies** box. Don't select the number of copies here and in your application's Print dialog box; you'll get twice the number of copies you want.

6. If you're printing multiple copies of a multi-page document and you want the copies printed in sets, click the **Collate** checkbox (not available in Windows NT 4.0). The page graphics change to show collated documents.

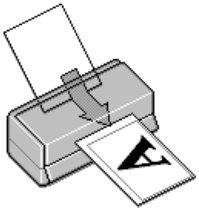
7. If you're printing a multi-page document and want the last page printed first so the pages come out without needing to be reordered, click the **Reverse Order** checkbox (not available in Windows NT 4.0). The page graphics change to show later pages printing first.

Note:
The Rotate by 180° setting lets you print the lower portion of a document first, with a bottom margin as small as 0.12 inch (3 mm) and a top margin as small as 0.55 inch (14 mm). This option is not available with Windows 3.1.

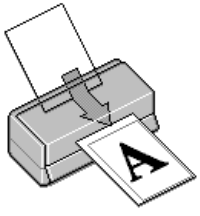
8. Select the direction of printing on the page using the **Orientation** options. To print your document oriented as shown in one of the following printer graphics, select the options listed below it.



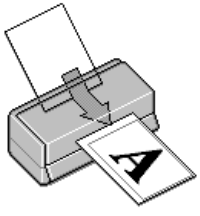
Portrait orientation



Landscape orientation



Portrait orientation
Rotate by 180°



Landscape orientation
Rotate by 180°

9. To use the maximum printable area of your selected paper size, set the Printable Area option to **Maximum**. To center your image on the page, select **Centered** (this makes all margins equal and reduces the printable area). The page graphic changes to show your selection.

10. Click a tab for the settings you want to check or change next, or click **OK** to print your document.

Creating User Defined Paper Sizes

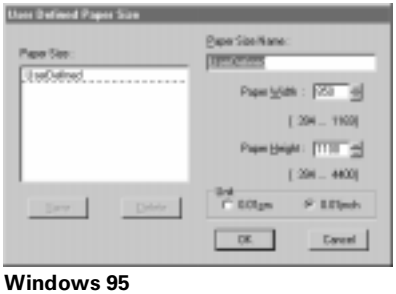
You can create up to 10 custom paper sizes (one in Windows 3.1) and add them to the Paper Size list using the User Defined option. This is useful if you're printing a custom size document, such as a banner. You can select any width from 3.94 to 9.5 inches, and any height (length) from 3.94 to 44 inches.

Follow these steps to create a custom paper size with the User Defined option:

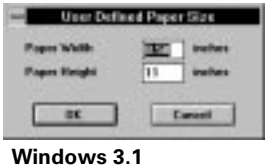
1. Follow the steps on page 1-2 to access the printer software and select the Paper tab.

2. Click the Paper Size list and scroll to the bottom of it using the arrows or scroll bar.

3. Click the User Defined option. You see one of the following dialog boxes:



Windows 95
Windows NT



Windows 3.1

Note:
In Windows 95 and Windows NT, the Paper Width and Paper Height units are in hundredth of an inch (or centimeter) increments. For example, 850 equals 8.50 inches.

4. **Windows 95 or Windows NT**
   Type a name (up to 24 characters) for your custom paper size in the Paper Size Name field. Then select a Paper Width and Paper Height for the paper. To use centimeters instead of inches, click the 0.01cm Unit option. When you're finished, click Save. The paper size name appears in the Paper Size list in the dialog box. Add more sizes if you want, and click OK when you're done.

Windows 3.1
You can only create one User Defined paper size. Type the width in the Paper Width field and the length in the Paper Height field. Then click OK.

5. You see the Paper tab again. The paper size name you defined is added to the Paper Size list and selected as the current setting. (In Windows 3.1, the setting is named User Defined.)

Changing or Deleting User Defined Paper Sizes

Follow these steps to delete or change paper sizes:

Windows 95 or Windows NT

1. Click User Defined in the Paper Size list.

2. On the User Defined Paper Size dialog box, select the custom paper name in the Paper Size list and click Delete or change the Paper Width, Paper Height, and/or Unit settings as necessary.

3. Click the Save button to save any changes, and click OK when you're done.

Windows 3.1

You can change the custom paper size, but cannot delete it.

1. Click User Defined in the Paper Size list.

2. On the User Defined Paper Size dialog box, change the Paper Width and Paper Height settings as necessary.

3. Click OK when you're done.

Selecting Paper Options on a Macintosh

The Paper Size and Orientation options are on the Page Setup dialog box. The options for collating and reversing the page order are on the Layout dialog box. Follow the steps in these sections for selecting the paper options:

- Choosing paper size and orientation options
- Selecting print order options

Choosing Paper Size and Orientation options

Follow these steps to select the Paper Size and Orientation options:

1. Create your image or project in your application software.
2. Open the File menu and select Page Setup. You see the Page Setup dialog box:

Printer graphic reflects changes to Orientation and Printable Area settings

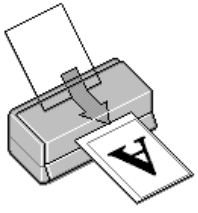
3. Click the Paper Size pop-up list to select the size of paper you loaded in the printer:

A4	Envelope C6
B5	Envelope DL
A5	A6 Index Card
Letter	Index card 5 × 8 in
Legal	Index card 8 × 10 in
Executive	EPSON Photo Paper 4 × 6 in
Half Letter	Panoramic 210 × 594 mm
Envelope #10	

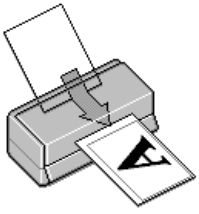
If you don't see the exact size you need in the list, you can create a custom paper size; see page 2-19 for instructions.

Note:
The Rotate by 180° setting lets you print the lower portion of a document first, with a bottom margin as small as 0.12 inch (3 mm) and a top margin as small as 0.55 inch (14 mm).

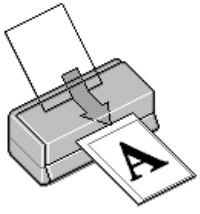
4. Select the direction of printing on the page using the Orientation options. To print your document oriented as shown in one of the following printer graphics, select the options listed below it.



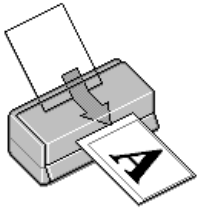
Portrait orientation



Landscape orientation



Portrait orientation
Rotate by 180°



Landscape orientation
Rotate by 180°

5. To use the maximum printable area of your selected paper size, set the Printable Area option to Maximum. To center your image on the page, select Centered (this makes all margins equal and reduces the printable area).

6. If you want to collate multiple copies of a multi-page document or you want to reverse the order in which pages are printed, click OK. Then see page 2-20 for instructions.

   If you've finished selecting page size and orientation options, click OK to close the Page Setup dialog box. Then select Print from the File menu to select any other printer settings you may need and print your document.

Creating Custom Paper Sizes

You can create up to 8 custom paper sizes and add them to the Paper Size list. This is useful if you're printing a custom size document, such as a banner. You can select any width from 3.94 to 9.5 inches, and any height (length) from 3.94 to 44 inches.

Follow these steps to create a custom paper size:

1. Follow the steps on page 2-17 to access the Page Setup dialog box.

2. Click the Customize button. You see the following dialog box:

3. Click the New button. Width and Height fields and Inches and cm radio buttons appear on the screen.

4. Type the width and length of your custom paper in the Width and Height fields. If you need to change from inches to centimeters, click the correct radio button.

5. Type a name for your custom paper size in the New Paper Size field, then click OK. The name is added to the Paper Size list and selected as the current setting in the Page Setup dialog box.

6. To delete a custom paper size, click the Customize button. Then click the name of the custom paper size, and click Delete. Click OK to return to the Page Setup dialog box.

Selecting Print Order Options

Follow these steps to use the Collate and Reverse Order options:

1. Open your application program's File menu and select Print.

2. Click the Layout button. You see the Layout dialog box:

3. If you're printing multiple copies of a multi-page document and you want the copies printed in sets, click the Collate checkbox. The page graphics change to show collated documents.

4. If you're printing a multi-page document and want the last page printed first so the pages come out without needing to be reordered, click the Reverse Order checkbox. The page graphics change to show later pages printing first.

5. Click OK to close the Layout dialog box.

Note:
For information on the other settings on the Layout dialog box, see page 2-27.

Note:
Layout options are available only when you're using Windows 95, Windows NT, or a Macintosh.

Selecting Print Layout Options

Your printer software's print layout options let you reduce or enlarge almost any size image to print on your printer. You can also select options to proof multiple pages on one sheet of paper, add page frames, and add a predefined or custom watermark.

For Windows 95 and Windows NT instructions, see the next section. For Macintosh instructions, see page 2-27.

Choosing Print Layout Options in Windows

Follow the steps in these sections to use options in the Layout dialog box:

- Using proportional printing
- Using multiple print layouts and page frames
- Adding a watermark

Using Proportional Printing

When you want to make the printed size of a document different from its actual size, you can use your printer software's proportional printing features to reduce or enlarge it, without having to reformat the document. You can proportion the document to fit on a selected paper size, or reduce or enlarge it by a selected percentage.

Follow these steps to use proportional printing:

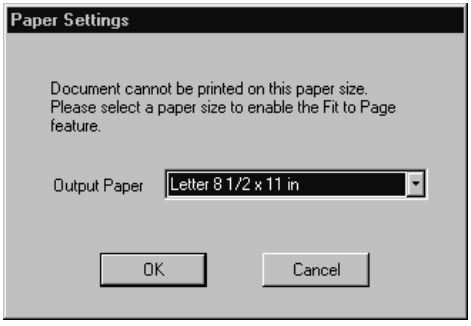
1. Follow the steps on page 2-12 to access the printer software and select the Paper tab.

2. Click the Paper Size list and select the actual size of the page you want to print.

   For example, if your document size is 11 × 17 inches and you want to *reduce* it to fit on Letter-size paper, select Ledger 11 × 17 in. If your document size is 5 × 8 inches, but you want to *enlarge* it to fit on Letter-size paper, select Index card 5 × 8 in.

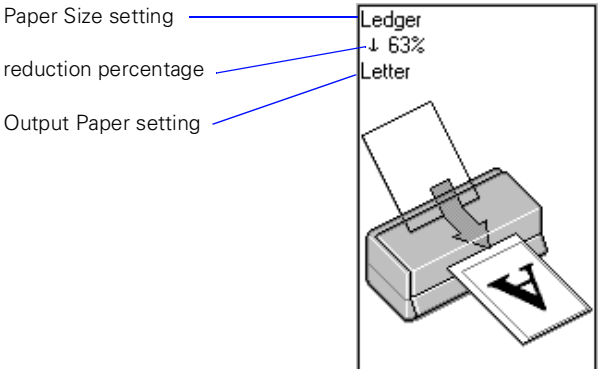
3. If the Paper Size setting you selected for your document is within the maximum paper size that can fit on your printer, you need to select proportional printing manually. Go to step 5.

4. If the **Paper Size** setting you selected is *larger* than the maximum size that can be printed on your printer, you see the following dialog box:

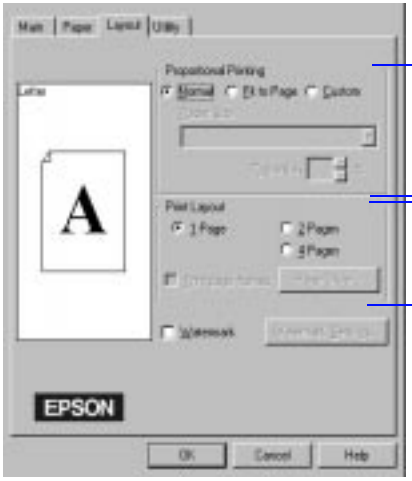


In the **Output Paper** list, select the actual size of the paper loaded in the printer and click **OK**. This automatically turns on proportional printing and sets the correct reduction percentage so the document fits into the printable area on the output paper you select.

The selected **Paper Size**, reduction percentage, and **Output Paper** settings now appear on the printer graphic. If you want to adjust the proportions or sizes, go to step 5. If you're ready to print, go to step 7.



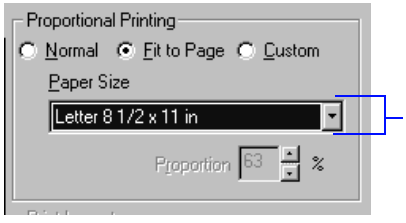
5. Click the **Layout** tab. You see the Layout dialog box:



Note:
If you select a Paper Size setting on the Paper tab that is larger than the maximum paper size for your printer and then choose Normal on the Layout tab, the printer software changes the Paper Size to Letter 8 1/2 × 11 inches.

6. Select one of the following proportional printing options:

   - Select **Normal** to set the print proportion to 100%.
   - Select **Fit to Page** to automatically reduce or enlarge the image to fit on the paper size loaded in the printer. The **Paper Size** option beneath the **Fit to Page** option becomes active; select the size of paper loaded in the printer.



   - Select **Custom** to reduce or enlarge the image by a specific percentage (10% to 400%).

7. If you're finished selecting Layout options, click **OK**.

   If you want to select more options, see the next sections.

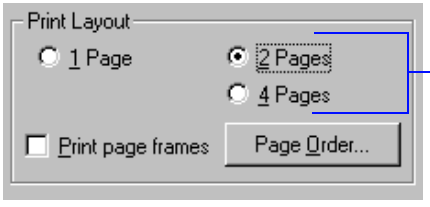
Using Multiple Print Layouts and Page Frames (Windows 95 only)

Note:
You can't select a multiple print layout option if you're using the Fit to Page or Custom proportional printing option.

If you're printing a multiple page document, but you want a quick proof of the images on each page printed on one piece of paper, you can select Print Layout options in the printer software. You can choose the way the pages are placed on the paper and add a lined frame to each page, if you want.

Follow these steps to use the Print Layout options:

1. To print multiple pages of your document on one sheet of paper, select either the 2 Pages or 4 Pages radio button.



Note:
You can select a page order only if it works with the proportion of your selected Paper Size and/or your current orientation setting, either Portrait or Landscape.

2. If the page order of the layout shown in the printer graphic is how you want your document printed, go to step 3.

   To change the page order, click the Page Order button. Then select the page order you want to use from the Print Layout dialog box that appears.

3. If you want to frame each page's contents with a black line, click the Print page frames checkbox.

4. If you're finished selecting Print Layout options, click OK.

   If you want to select more options, see the next section.

Note:
To add a custom watermark, you must first create the watermark as a bitmap in an application program that can create bitmap files. See your application's documentation for instructions.

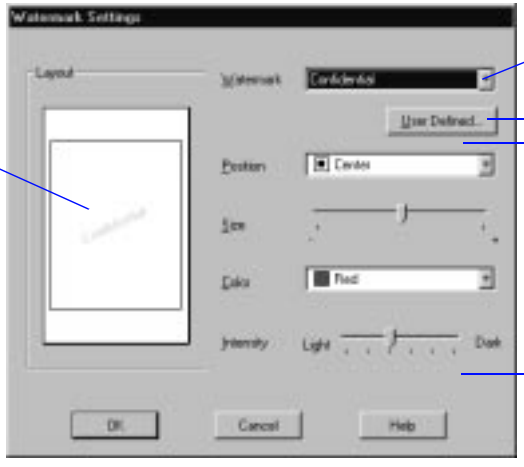
Adding a Watermark

You can add a watermark to each page in your document to emphasize its purpose or indicate how the document should be handled. For example, you may want to add a watermark of the word "Confidential" to documents you don't want distributed to other parties. Or you can add a custom bitmap of your company logo so your document looks like printed letterhead.

Follow the steps below to add a predefined or custom watermark.

1. To turn on the watermark feature, click the **Watermark** checkbox.

2. The default watermark is **Confidential**. To change the watermark or specify how it appears, click the **Watermark Settings** button. You see the following dialog box:



See how your selections will look in the Layout graphic shown here

Click here to select a predefined watermark

Click here to load a custom watermark you've created

Specify how you want your watermark to appear using these options

Note:
If you selected a multiple page print layout option (as described on page 2-24), your watermark will appear on each page in the layout.

You can create up to 10 custom watermarks. In Windows 95, you can use any bitmap file up to 15MB in size. With Windows NT, the file can be any size.

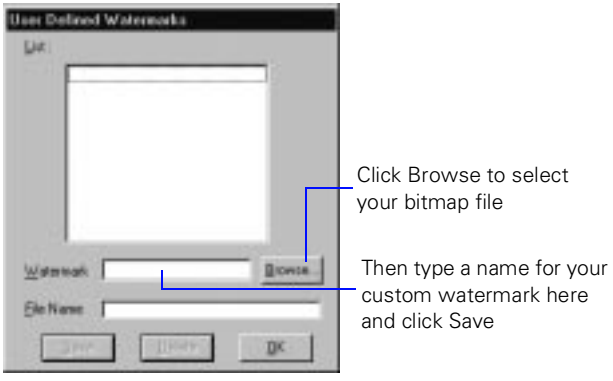
To delete a custom watermark you've added to the list, click the User Defined button. Then select the watermark and click Delete. Click OK to close the dialog box.

3. To select a different predefined watermark, click the arrow in the Watermark drop-down list and choose one of the following options:

Confidential	Do Not Copy
Draft	For Your Eyes Only
Urgent	Review Copy
Priority	Top Secret
Hot	Duplicate

Then go to step 5.

4. To load a custom watermark you've created as a bitmap in an application program, click the **User Defined** button. You see the following dialog box:



Click the **Browse** button. You see the Select a bitmap file dialog box. Navigate to the folder containing the bitmap file you want to use, select the file, and click **OK**.

Type a name for the custom watermark (up to 24 characters long) in the **Watermark** field. Click the **Save** button to add it to the list, then click **OK**.

The custom watermark now appears as the selected watermark in the Watermark Settings dialog box and is shown in the Layout graphic.

Note:
If you choose Black for your Ink setting, the watermark is printed in gray, even if you select a color for your watermark.

If your monitor displays only 16 colors, the Intensity adjustments are not shown in the Layout graphic. If you choose the No Halftoning setting, the Intensity setting does not determine how your watermark is printed.

5. Now select the way you want the watermark to appear by choosing the following options. The Layout graphic changes to reflect all the settings you choose.

   - **Position** selects where you want the watermark to appear on your page: **Center**, **Top-Left**, **Top-Right**, **Bottom-Left**, or **Bottom-Right**.
   - **Size** adjusts the size of the watermark, either larger or smaller, as you move the slide bar.
   - **Color** lets you choose a color for your predefined watermark: **Red**, **Black**, **Blue**, **Aqua**, **Lime**, **Fuchsia**, or **Yellow**. You cannot select a color for custom watermarks; they are the same color as the original bitmap.
   - **Intensity** sets the lightness or darkness of the watermark (from 5% to 100%) based on where you move the slide bar.

6. Click **OK** to accept your Watermark Settings.

7. If you're finished changing Layout options, click **OK** to close the Layout dialog box.

Choosing Print Layout Options on a Macintosh

Follow the steps in these sections to use options in the Layout dialog box:

- Using the Fit to Page option
- Using multiple print layouts and page frames
- Adding a watermark

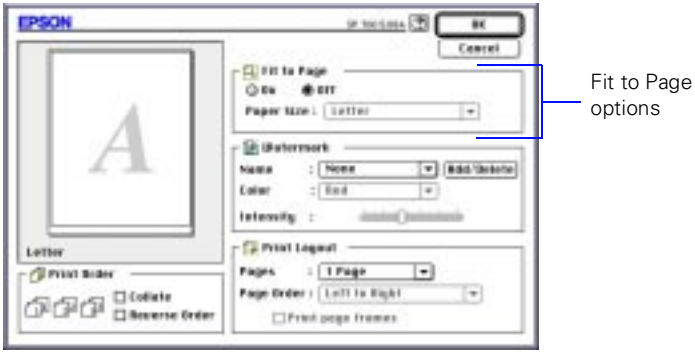
Using the Fit to Page Option

When you want to make the printed size of a document different from its actual size, you can use your printer software's Fit to Page option to proportion it to fit on a selected paper size.

Follow these steps to use the Fit to Page option:

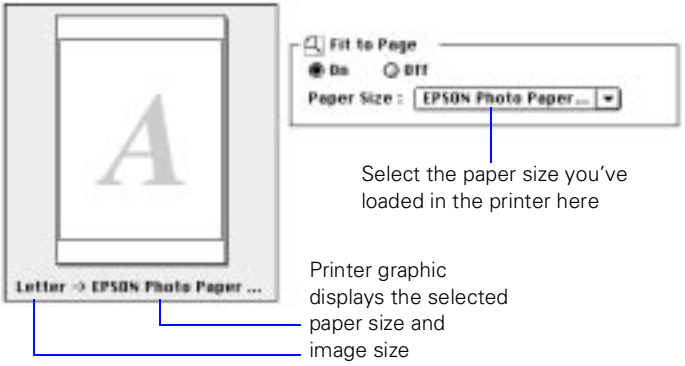
1. Create your image or project in your application software.
2. Open the File menu and select Page Setup. You see the Page Setup dialog box.
3. Click the Paper Size list and select the actual size of the image you want to print. For example, if your image size is 8 1/2 × 11 inches, select Letter for the Paper Size option.

   If you want to print this image at the maximum size on 4 × 6-inch EPSON Photo Paper, you'll use the Fit to Page option to **reduce** the image to that size. If you want to print this image at the maximum size on Legal-size paper (8 1/2 × 14 inches), you'll use the Fit to Page option to **enlarge** the image to that size.
4. Click OK to close the Page Setup dialog box.
5. Now open the File menu and select Print.
6. Click the Layout button. You see the Layout dialog box:



7. Select one of the following **Fit to Page** options:

   - Select **Off** to set the print proportion to 100%.
   - Select **On** to automatically reduce or enlarge the image to fit on the paper size loaded in the printer. The **Paper Size** option beneath the **Fit to Page** option becomes active.



   Now select the size of the paper you've loaded in the printer. This automatically sets the correct reduction or enlargement percentage so the image fits into the printable area on the paper size you select. The selected image size and paper size settings now appear beneath the printer graphic.

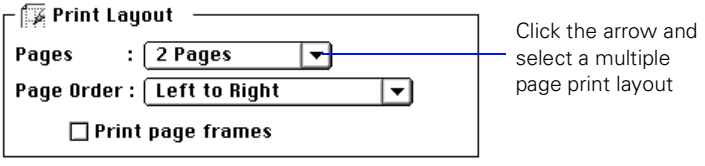
8. If you're finished selecting Layout options, click **OK**. If you want to select more options, see the next sections.

Using Multiple Print Layouts and Page Frames

If you're printing a multiple page document, but you want a quick proof of the images on each page printed on one piece of paper, you can select Print Layout options in the printer software. You can choose the way the pages are placed on the paper and add a lined frame to each page, if you want.

Follow these steps to use the Print Layout options:

1. To print multiple pages of your document on one sheet of paper, select either the 2 Pages or 4 Pages in the Pages pop-up list.



2. If the page order of the layout shown in the printer graphic is how you want your document printed, go to step 3.

   To change the page order, click the arrow in the Page Order pop-up list. Then select the page order you want to use.

3. If you want to frame each page's contents with a black line, one dot wide, click the Print page frames checkbox.

4. If you're finished selecting Layout options, click OK.

   If you want to select more options, see the next section.

Note:
You can't select a multiple print layout option if you're using the Fit to Page option.

Note:
You can select a page order only if it works with the proportion of your selected Paper Size and/or your current orientation setting, either Portrait or Landscape.

Adding a Watermark

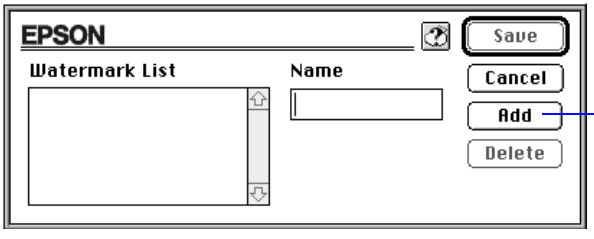
You can add a watermark to each page in your document to emphasize its purpose or indicate how the document should be handled. For example, you may want to add a watermark of the word "Confidential" to documents you don't want distributed to other parties. Or you can add a custom PICT file of your company logo so your document looks like printed letterhead.

1. To use one of the predefined watermarks, click the arrow in the **Name** pop-up list in the Watermark box. Then choose one of the following options:

Confidential	Do Not Copy
Draft	For Your Eyes Only
Urgent	Review Copy
Priority	Top Secret
Hot	Duplicate

   Then go to step 3.

2. To load a custom watermark you've created as a PICT file in an application program, click the **Add/Delete** button. You see the following dialog box:



Click the Add button to select a PICT file

   Click the **Add** button. You see a dialog box for selecting files. Navigate to the folder containing the PICT file you want to use, select the file, and click **Open**.

Note:
To add a custom watermark, you must first create the watermark as a PICT file in an application program that can create PICT files. You can create up to 10 custom watermarks from PICT files up to 1MB in size.

See your application's documentation for instructions.

To delete a custom watermark you've added to the list, click the Add/Delete button. Then select the watermark and click Delete. Click Save to close the dialog box.

If you selected a multiple page print layout option (as described on page 2-30), your watermark will appear on each page in the layout.

Note:
If you choose Black for your Ink setting and select a Color such as Red for your watermark, the watermark is printed in gray.

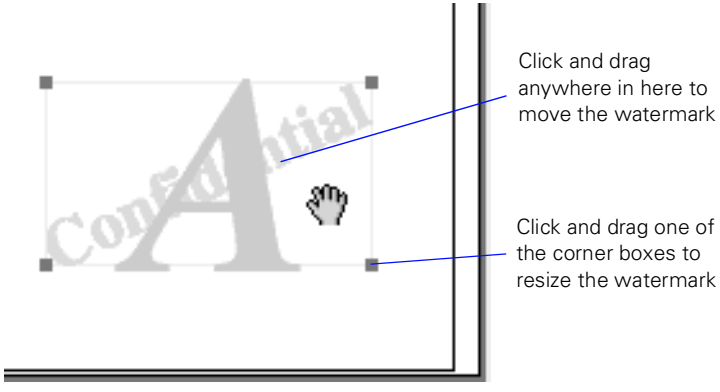
If your monitor displays only 16 colors, the Intensity adjustments are not shown in the Layout graphic. If you choose the No Halftoning setting, the Intensity setting does not determine how your watermark is printed.

The name of your PICT file appears in the Name field and is added to the Watermark List. Click the Save button to close the dialog box.

The custom watermark now appears as the selected watermark in the Layout dialog box and is shown in the Layout graphic.

3. Now select the way you want the watermark to appear by choosing the following options. The Layout graphic changes to reflect all the settings you choose.

   - Color lets you choose a color for your predefined watermark: Red, Black, Blue, Aqua, Lime, Fuchsia, or Yellow. You cannot select a color for custom watermarks; they are the same color as the original PICT file.
   - Intensity sets the lightness or darkness of the watermark (from 5% to 100%) based on where you move the slidebar.
   - To adjust the size and position of the watermark, move the cursor over the Layout graphic. Four boxes appear in the corners of the graphic and the cursor changes to a hand.



To move the watermark, click anywhere inside the graphic and drag it into one of five positions: center, upper-right, upper-left, lower-right, or lower-left.

To resize the watermark, move the cursor over one of the corner boxes; the cursor changes to a pointing hand. Click and drag the box corner to reduce or enlarge the watermark.

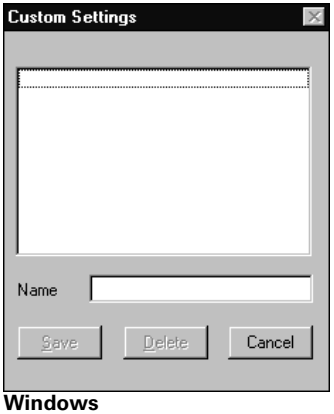
4. If you're finished changing Layout options, click **OK** to close the Layout dialog box.

Saving Custom Settings

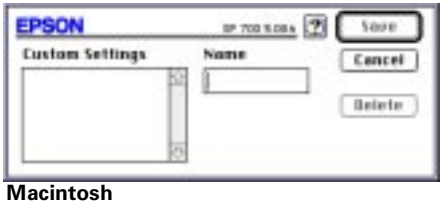
After you've fine-tuned your printer settings for a special project, you can save the settings as a group. Then you can quickly reuse them the next time you print a similar project. You can save up to 10 groups of settings. Follow these steps:

1. Customize your printer settings as described in this chapter.

2. Click **Advanced**, and then click the **Save Settings** button on the main printer software dialog box. You see one of the following:



Windows



Macintosh

Note:
If you change the Media Type or Ink setting when your customized setting is selected, the setting selected in the list changes to Custom Settings. This does not affect your customized setting. To return to your customized setting, simply reselect it.

3. Type a unique name for your settings (up to 16 characters) and click the Save button.

The name you choose will now be available on the printer settings dialog box. To use the settings, click Advanced. Then open the Custom Settings list and double-click the name you selected for your custom settings group.

To redefine or delete your custom settings, see the next sections.

Redefining Custom Settings

To change the options in a customized settings group but keep the same name for it, follow these steps:

1. Select Advanced mode. Then select the name of the custom settings group you want to redefine in the Custom Settings list.

2. Change the printer settings as necessary. (If you change the Media Type and Ink settings, the custom settings group name reverts to Custom Settings; this doesn't affect your customized setting.)

3. Click Save Settings. Then select the name of the custom settings group you're redefining in the Custom Settings box.

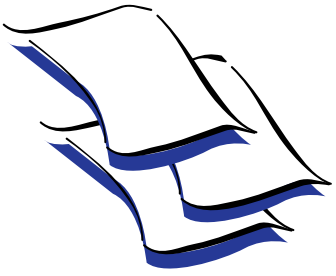
4. If you're using Windows, click Save. You see the Save As dialog box. Click OK to save your redefined settings. (Click Cancel to cancel your changes.)

   On a Macintosh, click the Redefine button. Then click Replace at the confirmation dialog box to save your redefined settings. (Click Cancel to cancel your changes.)

Deleting Custom Settings

1. Select Advanced mode. Then click Save Settings.

2. Select the custom settings group in the Custom Settings box, and click Delete. (You cannot delete any of the predefined settings.)



3 Printing on Special Media

Your EPSON Stylus Photo 700 lets you print on just about any kind of paper you want to use. You can get great results printing on various sizes of plain paper, letterhead, and envelopes. You'll get even better results with specially coated ink jet paper. For the best output, use EPSON's Photo Paper or other photo quality media.

For special projects, you can use a variety of EPSON media designed for ink jet printers, ranging from transparencies to iron-on transfer paper. You can even set up your printer to use custom paper sizes to print panoramic images. This chapter covers the following:

- Using special media
- Printing panoramic images and other custom size projects

Using Special Media

Whether you print on plain paper or special media, you need to load it according to the guidelines in the table below.

For this media name...	**Load a maximum of this many sheets...**	**Then select this Media Type setting in your printer software...**
Plain paper, letter size	100 (load preprinted forms top edge first)	Plain paper
Plain paper, legal size	100 (pull up the paper support extension)	
Envelopes	10 (set the thickness lever to the + position)	
Labels (single sheets)	1	
EPSON 360 dpi Ink Jet Paper	70 letter size 30 legal size	360 dpi Ink Jet Paper
EPSON Special Coated Paper for 360 dpi Printing		
EPSON Iron-On Cool Peel Transfer Paper[1]	1	
EPSON High Quality Ink Jet Paper	70 letter size 30 legal size	Photo Quality Ink Jet Paper
EPSON Photo Quality Ink Jet Paper		
EPSON Special Coated Paper for 720 dpi Printing		
EPSON Photo Quality Ink Jet Cards	30 cards (use a support sheet)	
EPSON Special Coated Index Cards for 720 dpi Printing		
EPSON Photo Quality Self Adhesive Sheets	1	
EPSON Photo Quality Glossy Paper	20 (use a support sheet)	Photo Paper
EPSON Photo Paper	20 (use a support sheet)	
EPSON Panoramic Photo Paper	1	

For this media name...	Load a maximum of this many sheets...	Then select this Media Type setting in your printer software...
EPSON Photo Quality Glossy Film[2]	30 (use a 1.2 inch top margin and a support sheet)	Photo Quality Glossy Film
EPSON Photo Stickers	1 (use a support sheet)	
EPSON High Quality Glossy Paper	30 (use a support sheet)	
EPSON Ink Jet Transparencies	10 (use a support sheet)	Ink Jet Transparencies

[1] Use the Flip Horizontal option to reverse your image before you print it—especially if it includes text—so the image will appear correctly when it's transferred. See Chapter 2 for instructions.

[2] For better results, load EPSON Photo Quality Glossy Film one sheet at a time. This also allows you to use a smaller top margin.

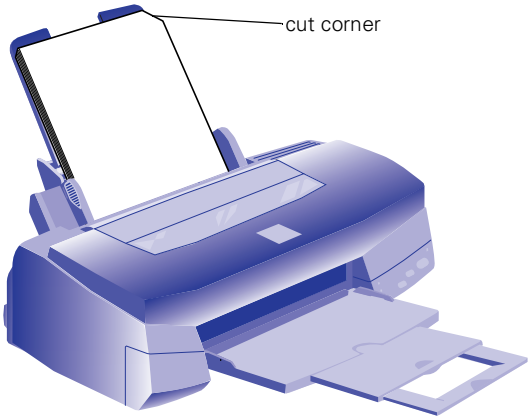
The type of paper or other media you use is one of the most important factors in determining the quality of your printed output. The following tips will help you get the best results on any type of paper or other media.

Caution:
Don't use the cleaning sheets that may be included with your special media; they may damage the printer.

Additional Media Loading Guidelines

- If the corresponding Media Type option for your paper is not shown in the Media Type list, change the Print Quality setting in the More Settings dialog box, select Automatic as the Mode setting, or change the predefined setting in the Custom Settings list in the printer settings dialog box. Then select the correct Media Type. See Chapter 2 for more information.
- In addition to the Media Type option, remember to select the correct Paper Size for your media on the Paper menu.

- Some special media have a cut corner that you need to position correctly; follow any instructions in the package. Always handle sheets by the edges, and don't touch the printable surface.

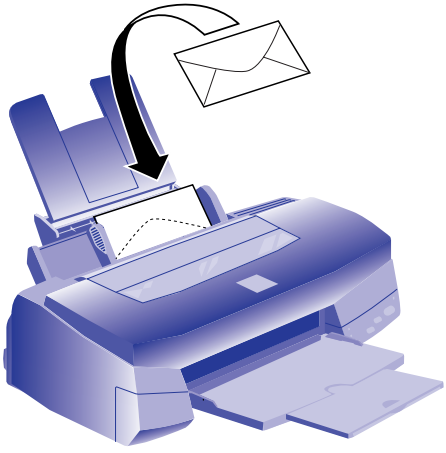


- If the special media has protective sheets between the sheets of media, be sure to remove the protective sheets before printing.
- Be sure to load the printable side of the media face up in the sheet feeder.
- Use ink jet papers within one year of purchase. Use glossy media and transparencies within six months. Return unused sheets and envelopes to their original packages as soon as possible. See Appendix B for more media storage information.
- Some media require additional loading instructions. See the following sections for more information about printing on the following media:
  - "Envelopes" on page 3-5
  - "EPSON Photo Quality Ink Jet Cards" on page 3-6
  - "EPSON Photo Paper (4 x 6)" on page 3-6
  - "EPSON Ink Jet Transparencies" on page 3-8
  - "Panoramic Photo Paper and Banners" on page 3-8

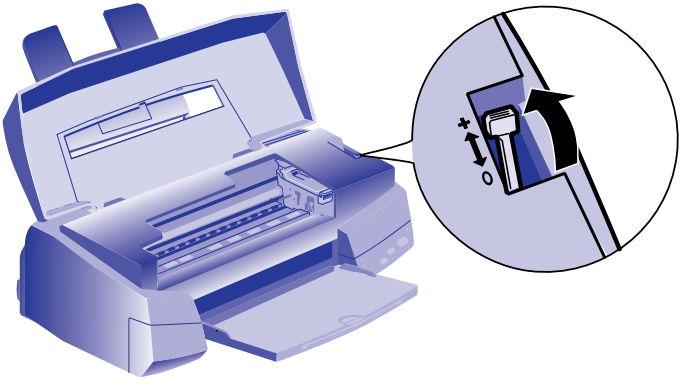
Note:
Before you print, make sure you set the Paper Size option for the type of envelope you're using. Set the Media Type to Plain paper.

Envelopes

You can load up to 10 envelopes at a time. Adjust the left edge guide and load the envelopes as shown, flap edge first and printable side up:



Set the thickness lever to the + position when you print on envelopes or if ink smears when you print on other thick media. Open the printer cover and position the lever as shown below. Then close the cover and print. (Make sure you return the lever to the 0 position before you print on regular media.)



EPSON Photo Quality Ink Jet Cards

Use these cards to print photos, postcards, or greeting cards.

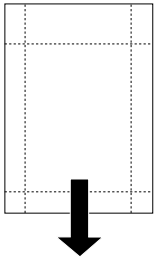
You can load up to 30 cards at a time with the included support sheet or a sheet of plain paper beneath the stack. When you're ready to print, use your software to set the Paper Size option for the size card you're using and set the Media Type to Photo Quality Ink Jet Paper.

If ink smears on the cards, set the thickness lever to the + position before printing, as shown on page 3-5.

EPSON Photo Paper (4 × 6)

Photo Paper (4 × 6) is perforated around the edges, so you can trim your printouts and "bleed" the photo—extend it to the edge of the paper—on all sides. Follow these steps to print on EPSON Photo Paper:

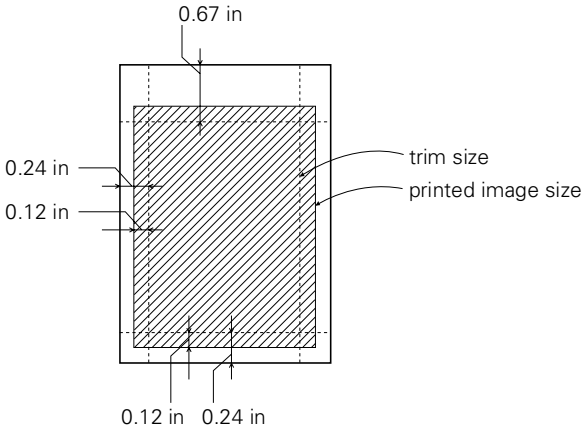
1. Load the paper with the glossy side facing up and the perforated margins positioned as shown:



   You can load up to 20 sheets of Photo Paper at a time. Make sure you place the included support sheet beneath the stack, but don't print on it.

2. Slide the left edge guide so it fits snugly against the paper.

3. When you create the image in your application software, size it to 4.25 × 6.25 inches. You can also use proportional printing as described on page 2-21 (Windows) or page 2-28 (Macintosh).



4. Choose **EPSON Photo Paper 4 × 6 in** as the **Paper Size** setting and **Maximum** as the **Printable Area** setting.

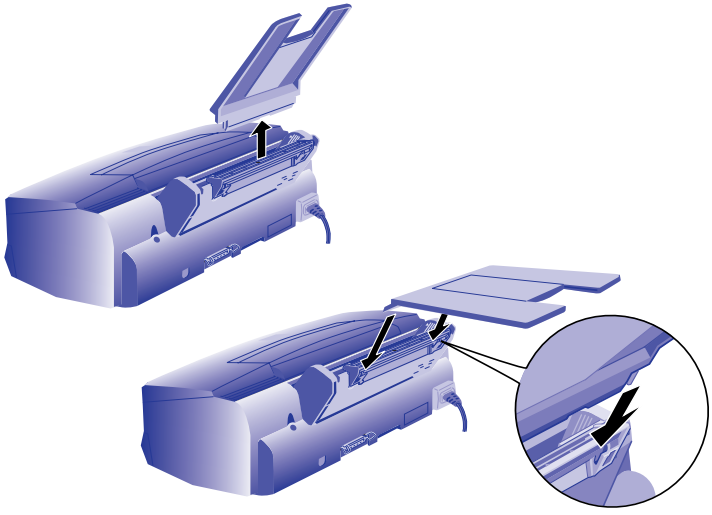
5. Choose **Photo Paper** as the **Media Type** setting.

6. After you print your picture, fold the paper back and forth along the perforations and carefully tear the margins off.

   To keep your printouts looking their best, store them in a resealable plastic bag or other airtight covering and protect them from heat, humidity, and direct sunlight.

EPSON Ink Jet Transparencies

To print on transparencies only, remove the paper support and reinstall it in the rear paper support slot, as shown below.



Before you load transparencies, place the included support sheet or a plain paper sheet beneath the stack. You can load up to 10 transparencies. However, you may get better results by loading one sheet at a time. With multiple sheets loaded, the minimum top margin you can use is 1.2 inches.

Panoramic Photo Paper and Banners

You can use EPSON Panoramic Photo Paper to print photo-quality images up to 22.5 inches long, or you can use banner paper or ordinary (continuous-form) computer paper to print an image up to 44 inches long. You can also print on any size paper that fits into the printer (at least 3.94 × 3.94 inches), by using the custom page size feature of your printer software on either a Windows computer or a Macintosh.

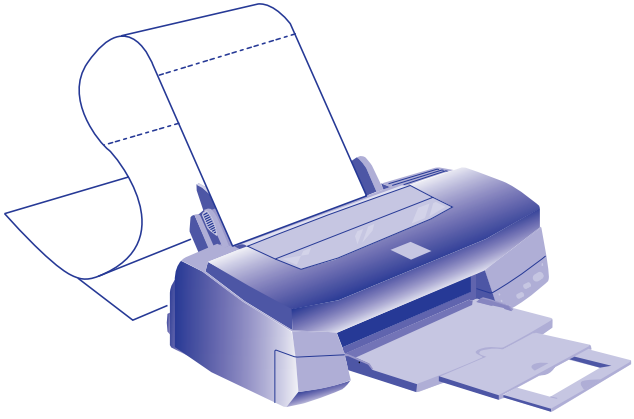
Loading Panoramic or Banner Paper

1. Pull up the paper support extension and pull out the output tray extensions.

2. To make a 44-inch print with continuous-form computer paper, first tear off four continuous sheets and remove the perforations at the edges. If you are using non-perforated banner paper, cut the paper to the length you want for easier handling.

3. Slide the left edge guide to the far left.

4. Insert the paper in the printer as shown. The right edge of the paper should be against the right edge guide. You can load precut EPSON Panoramic Photo Paper the same way.



5. Slide the left edge guide next to the left edge of the paper.

6. Follow the instructions below to print your image on either a Windows computer or a Macintosh.

Tip

If the paper is not loading correctly, hold the paper straight while pressing the load/eject button to load the sheet in the printer.

Printing a Panoramic Image from Windows

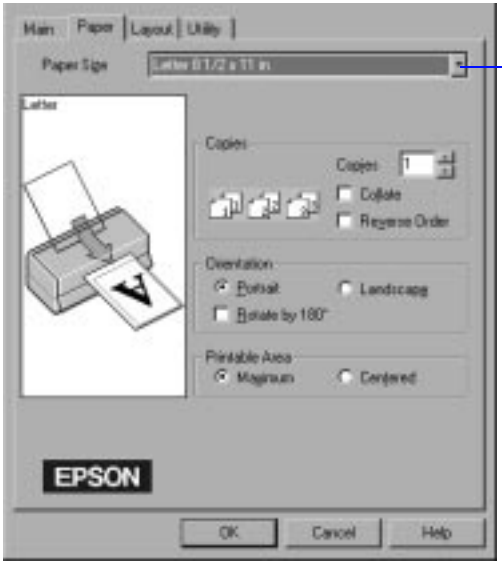
Follow these steps to print a panoramic image or other custom-size project on a Windows computer:

1. Create the project in your graphics application or other software. You can create it in either portrait or landscape orientation.

2. Click the print icon or choose **Print** or **Print Setup** from the File menu. You see a printing dialog box.

3. Make sure your printer is selected, and then click the **Printer**, **Setup**, **Properties**, or **Options** button. (You may have to click a sequence of these buttons.) You see the printer settings dialog box, as shown on page 1-2.

4. Click the **Paper** tab. You see a dialog box like the following:



Click to display list of paper sizes

5. If you are using precut EPSON Panoramic Photo Paper, choose **Panoramic 210 × 594 mm** from the **Paper Size** list. Otherwise, choose **User Defined** and enter the size of your paper (see page 2-15 for instructions).

If you're using computer paper, choose Plain paper for the Media Type setting. If you're using coated banner paper, try the Photo Quality Ink Jet Paper setting.

6. Choose **Portrait** or **Landscape** if you haven't already specified the orientation in your application software. Rotate the image 180° or set the printable area if necessary.

7. Click the **Main** tab to return to the Main printer settings dialog box. Make sure you choose the appropriate media type and the other settings you want to use, and then click **OK**.

8. Click **Close**, **OK**, or **Print** to print your image. You may need to click a sequence of these buttons.

Printing a Panoramic Image from a Macintosh

Follow these steps to print a panoramic image or other custom-size project on a Macintosh:

1. Create the document in your graphics application or other software. You can create it in either portrait or landscape orientation.

2. Choose **Page Setup** from the File menu.

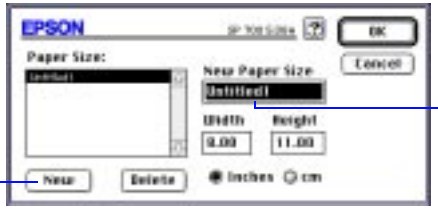
   You see a dialog box like the following:

3. Choose **Portrait** or **Landscape**, depending on the orientation you want. Rotate the image 180° or set the printable area if necessary.

4. If you are using precut EPSON Panoramic Photo Paper, select **Panoramic 210 × 594 mm** in the Paper Size box. Then continue with step 9.

5. Click the **Customize** button. The following dialog box appears:

6. Click the **New** button. The dialog box changes:



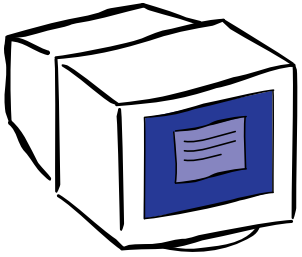
7. Type a name for your custom size in the **New Paper Size** box.

8. To print a panoramic image, type **8.5** inches for the **Width** and up to **44** inches for the **Height**. (This works for both "landscape" and "portrait" style images.) Click **OK**, then **OK** again.

9. Choose **Print** from the File menu or click the print icon in your application. You see a printer settings dialog box like the one shown on page 1-7.

10. Make sure you choose the appropriate media type and the other settings you want to use, and then click **Print** to print your banner.

If you're using computer paper, choose Plain paper for the Media Type setting. If you're using coated banner paper, try the Photo Quality Ink Jet Paper setting.



4 Managing Print Jobs

Your printer software includes several utilities for managing print jobs. You can use them to monitor your printer's status, set up large jobs to print later, and handle network printing.

This chapter provides instructions for the following:

- Managing print jobs in Windows 95
- Managing print jobs in Windows 3.1
- Managing print jobs in Windows NT 4.0
- Managing print jobs on a Macintosh

Note:
You can use Status Monitor 2 only if it is installed and your printer is connected directly to the computer or connected to a remote server in a Windows 95 network.

Managing Print Jobs in Windows 95

Your printer software offers three ways to manage and monitor your print jobs in Windows 95:

- The Progress Meter, which appears each time you send a print job, as described on page 1-6. You can turn the Progress Meter on or off and select other printing options using the Speed & Progress button; see page 4-2 for details.
- The Spool Manager, which appears in the taskbar at the bottom of the screen each time you print, as described on page 4-4.
- Status Monitor 2, which provides a variety of print monitoring options, as described on page 4-5.

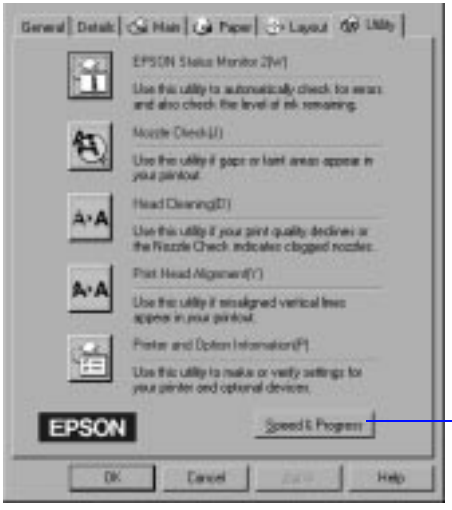
Selecting the Speed & Progress Options

You can set up the way your printer software sends print jobs and select whether to display the Progress Meter using the Speed & Progress dialog box. To access the dialog box, you must open your printer software from the Windows 95 Printers utility as described below.

1. Click **Start**, point to **Settings**, then click **Printers**.

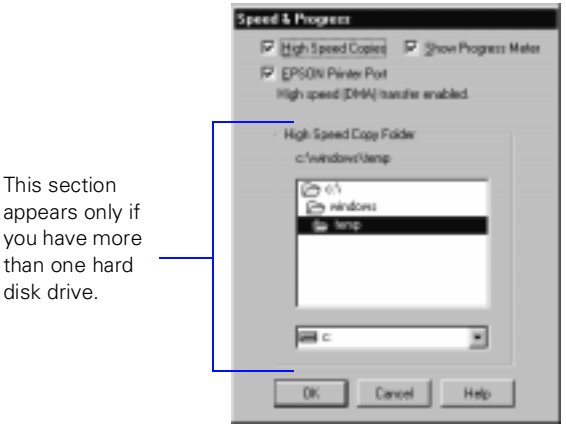
2. Right-click the **EPSON Stylus Photo 700** printer icon and select **Properties** from the drop-down menu. You see the printer settings dialog box.

3. Click the **Utility** tab. You see the Utility menu:



Note:
The folder you select in the High Speed Copy Folder section is also the default spool directory. Try changing this folder if you get an error message when trying to print.

4. Click the **Speed & Progress** button. You see this dialog box:



Select from the following options:

- **High Speed Copies** speeds up printing of multiple copies of the same document by using your hard disk space as a cache.
- **Show Progress Meter** lets you control whether or not the Progress Meter is displayed when you send a print job. See page 1-6 for information on the Progress Meter.
- **EPSON Printer Port** lets you optimize the transfer rate of your printer port for EPSON printers instead of using the Windows default printer port. You may see one of these messages beneath the **EPSON Printer Port** option:
  - **High speed (DMA) transfer enabled** tells you that you're already using fast DMA transfer mode.
  - **For higher data transfer rates, use DMA transfer** lets you know that you can speed up printing by enabling DMA transfers on your system. See your computer documentation for details.

Note:
If you see no message, you cannot enable DMA transfers on your system. However, you may be able to speed up printing by setting your parallel port to ECP mode. See your computer documentation for instructions on selecting ECP mode, if your computer supports it.

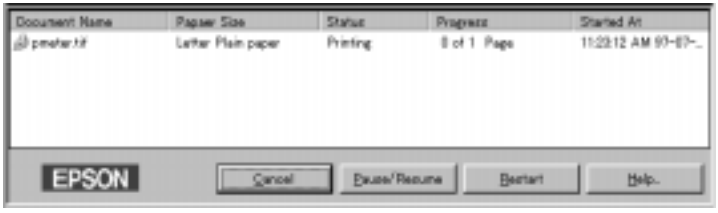
5. Click **OK** to close the dialog box and return to the Utility menu. Then click **OK** again to close the printer software window.

Using the Spool Manager

The Spool Manager creates a temporary print job file, stores it in the C:\TEMP or C:\WINDOWS\TEMP folder or directory, and assigns it to a print queue. The software then sends the file to your printer at the right time.

To open Spool Manager while you're printing, click the EPSON Stylus Photo 700 icon that appears on the taskbar at the bottom of the screen.

You see the Spool Manager window:



The Spool Manager window displays the status of your print job files and lets you control them. To cancel, pause, resume, or restart a print job, click the job to highlight it; then click one of the command buttons on the bottom of the window.

Deleting a Stalled Print Job

If you're having trouble printing, it may be because of a stalled print job. Follow these steps to delete the stalled job and continue printing:

1. Click the EPSON Stylus Photo 700 button on the taskbar.
2. Click on any print jobs marked Held.
3. Click the Cancel button.
4. Exit the Spool Manager and try printing again.

Using Status Monitor 2

Status Monitor 2 lets you view detailed information about your print jobs and control how you want printing monitored. You can check printer status when your printer is connected directly to your computer or if it is connected to a remote server in a Windows 95 network. Before using Status Monitor 2, you must enable background monitoring, as described in the next section.

Enabling Background Monitoring

Note:
ScanDisk will not run if Status Monitor 2 is performing background monitoring. To disable background monitoring, right-click the icon on the Windows 95 taskbar in the bottom right corner of your screen and select Stop monitoring now.

You can enable background monitoring for your printer if you want Status Monitor 2 to alert you to any error conditions while you're working on other tasks. This lets you know if paper has run out, or if any other printing problem has occurred, without having to open Status Monitor 2.

To turn on background monitoring, follow these steps:

1. Click **Start**, point to **Programs**, point to the **Epson** folder, and click **EPSON Status Monitor 2** to open Status Monitor 2.

2. Click the name of the printer you want to monitor in the Installed Printers list. The printer name is highlighted.

3. Open the Settings menu and select **Background Monitoring**.

4. Select either **Monitor from restart** (to begin background monitoring after your next system restart) or **Monitor now** (to begin background monitoring right away).

Now set your monitoring preferences for the printer as described in the next section.

Setting Up Monitoring Preferences

Note:
Background monitoring must be turned on to change the Background Monitoring and Status Alert preferences for individual printers in the Monitoring Preferences window. See page 4-5 for instructions.

You can select the way you want Status Monitor 2 to monitor each printer you use in the Monitoring Preferences window. There are several ways to open the window:

- Click the printer name in the Installed Printers list to highlight it and click the icon or select **Monitoring Preferences** from the Settings menu.
- Right-click the printer name in the Installed Printers list and select **Monitoring Preferences** from the drop-down menu.

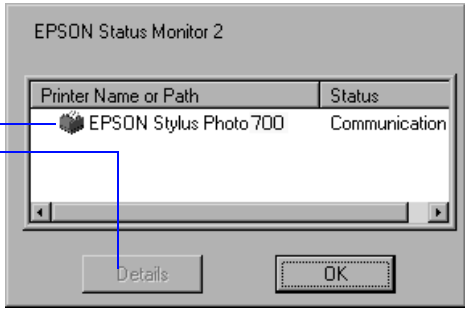
You see the Monitoring Preferences window:

Note:
Short monitoring intervals may cause some applications to run slower.

If you turn on one or more of the Status Alert options, you'll see the Status Alert dialog box when the selected condition occurs. For example, if you turn on **Show when errors occur**, the dialog box will appear only if a printing error occurs. If you select all the options, the dialog box will appear whenever you print, encounter an error, or have low ink levels.

The color of the printer icon in the Status Alert dialog box indicates the type of error, as described on page 4-8.

Click the printer name to highlight it, then click Details to open the Printer Status window; see page 4-8 for more information

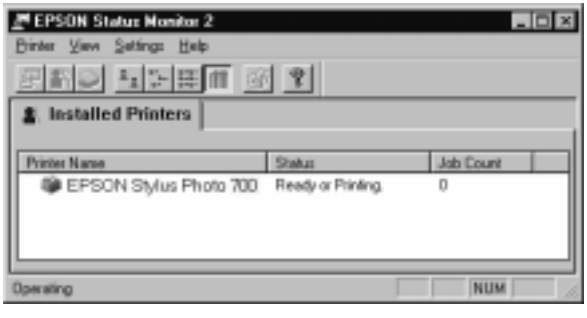


Using the Status Monitor 2 Main Window

Once you've enabled background monitoring for your printer and set preferences, there are several ways to access Status Monitor 2:

- Double-click the icon on the Windows 95 taskbar in the bottom right corner of your screen.
- Click **Start**, point to **Programs**, click the **Epson** folder, and click **EPSON Status Monitor 2**.
- Access the printer software from within your application or the Printers utility (see page 1-2 and page 1-5), click the **Utility** tab, and click the **EPSON Status Monitor 2** button. (This method accesses the Printer Status window only; see page 4-8 for details.)

When you start Status Monitor 2, you see the main window:



If you have more than one printer you want to monitor, you can add them using the Add Printer option in the Settings menu. To save system resources, you may want to delete any printers from the Status Monitor 2 list that you don't need to monitor. To do this, click the printer in the Installed Printers list and select Delete Printer from the Settings menu.

The color of the Installed Printer icon indicates the printer status as follows:

Installed Printer icon color	Status message
Green	Ready to print.
Yellow	Paper and/or ink level is low.
Red	Paper and/or ink is out, paper is jammed, or a print or communication error has occurred.
Gray	Printer not detected.

You can customize the appearance of items on the Status Monitor 2 main window using the View menu options or options on the button bar.

If you're monitoring multiple printers, you can reorder them in the Installed Printers list by clicking in the Printer Name, Status, or Job Count title bar.

Other options in Status Monitor 2 let you view more details of the printer or job status, as described in the next sections.

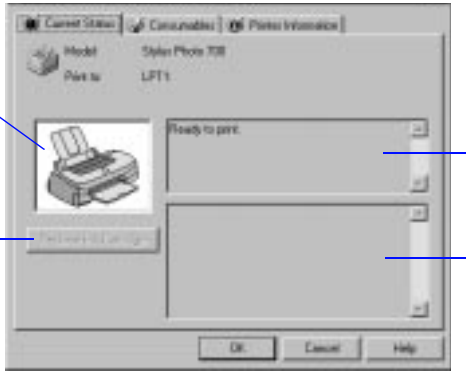
Using the Printer Status Window

For more details on the status of your printer, you can use the Printer Status window. There are several ways to open the window:

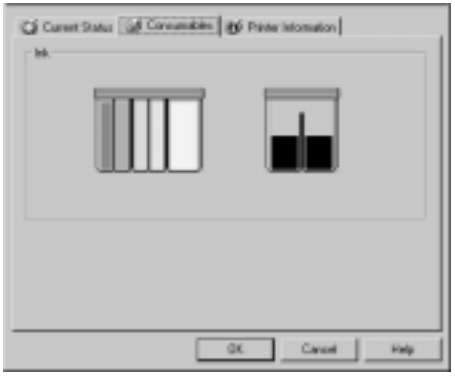
- Double-click the printer name in the Installed Printers list.
- Click the printer name in the Installed Printers list to highlight it and click the icon or select Printer Status from the Printer menu.
- Right-click the printer name in the Installed Printers list and select Printer Status from the drop-down menu.

- If you're currently using the printer software, click the **Utility** tab, then click the **EPSON Status Monitor 2** icon. (For instructions on accessing your printer software, see page 1-2 and page 1-5.)
- You can also access the Printer Status window by clicking the **Detail** button on the Progress Meter (see page 1-6) or the Status Alert dialog box (see page 4-6).

You see the Printer Status window. The Current Status tab gives printing status and error correction information.



To check the amount of ink you have, click the **Consumables** tab.



The Printer Information tab is not active with this printer.

Note:
The Job Status window is very similar to the Spool Manager window. Both allow you to pause, cancel, and restart print jobs. See page 4-4 for information on the Spool Manager.

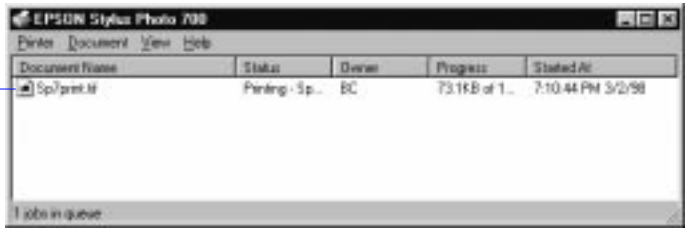
Using the Job Status Window

To view detailed information on the print jobs waiting to print on your printer, you can use the Job Status window. There are several ways to open the window:

- Click the printer name in the Installed Printers list to highlight it and click the icon or select **Job Status** from the Printer menu.
- Right-click the printer name in the Installed Printers list and select **Job Status** from the drop-down menu.

You see the Job Status window:

Printing information appears here



Options in the Printer menu let you pause printing or purge all print jobs for the printer, select or deselect the printer as your Windows default, and access the printer software to change default settings.

The Document menu options let you pause or cancel printing of individual printing jobs. First click the print job you want to pause or cancel in the Document Name list to highlight it.

Managing Print Jobs in Windows 3.1

Your Windows printer software includes two management utilities: the Spool Manager and Despooler.

- The Spool Manager starts automatically when you send a job to the printer. It allows you to print in the background while you continue to work on your computer and to hold jobs to print at a later time. If you're using your printer on a network, it also handles multiple print jobs that come in at the same time. See the next section for details.
- The Despooler also starts automatically when you send a job to the printer. It displays on your screen to show printer status, as described on page 1-7.

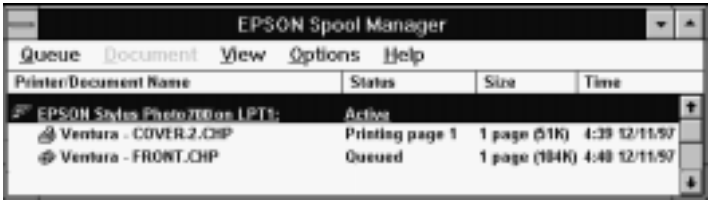
Using the Spool Manager

The Spool Manager works like the Windows Print Manager. When you send a job to your printer, your printer software creates a temporary *journal* file, stores it in the C:\TEMP or C:\WINDOWS\TEMP folder or directory, and assigns it to a print queue. The software then sends the file to your printer at the right time.

Note:
You may not see the Spool Manager icon if the Program Manager or current window is maximized. Make the window smaller to see the Spool Manager icon.

- To open it while you're printing, click the Spool Manager icon that appears at the bottom of your desktop.
- You can open the Spool Manager at any time by double-clicking the Spool Manager4 icon in the EPSON program group.

You see the Spool Manager window:



The Spool Manager window displays the status of your print queues and journal files and lets you control them. You can also control the display of the Despooler and the default spool directory. Click Help in the Spool Manager menu bar for detailed information.

Deleting a Stalled Print Job

If you're having trouble printing, it may be because of a stalled print job. Follow these steps to delete it and continue printing:

1. Open the Spool Manager as described above.
2. Click on any print jobs marked Held, then open the Document menu and click Delete.
3. Click Yes.
4. Exit Spool Manager and try printing again.

Changing the Default Spool Directory

If you get an error message when you try to print, or printing is very slow, you can try changing your default spool directory.

1. Make a directory on your hard disk where you want Spool Manager to store print job files, for example, C:\SPLTEMP.
2. Open the Spool Manager as described on page 4-11.
3. Choose Default Spool Directory from the Options menu.
4. In the dialog box, change the spool directory to the one you created in step 1. Then click OK.
5. Make sure EPSON Stylus Photo 700 is selected, and then choose Setup from the Queue menu. The Queue Setup dialog box appears.

6. Make sure the spool directory is the one you created in step 1. Also make sure Use Print Manager for this port is checked. Then click OK.

7. Close Spool Manager.

Managing Print Jobs in Windows NT 4.0

Windows NT 4.0 servers and workstations include a messenger service to alert you to printer errors or let you know when a print job is finished. If you have appropriate network access privileges or you're controlling printing from the server, you can also cancel, pause, or restart print jobs and set the sharing, security, scheduling, and port options. See your Windows NT documentation for details.

Managing Print Jobs on a Macintosh

Your Macintosh printer software includes two management utilities: Monitor3 and Status Monitor. It also includes a Configuration utility for setting up print monitoring options.

- If you're using background printing, Monitor3 starts automatically when you send a job to the printer. It handles printing while you continue to work on your Macintosh and lets you track documents that are waiting to be printed.
- The Status Monitor shows you see how much ink you have left.
- The Configuration utility lets you select how you'll be notified of printer errors and where you want print job files stored.

Using Monitor3

The Monitor3 utility lets you continue to work on your Macintosh while your document is printing. You can use Monitor3 to check or cancel any pending print jobs. It also shows the status of the job currently being printed.

If you want to use this utility, you need to turn on background printing in the Chooser and increase the memory allocation for Monitor3, as described in the next section.

Setting Up Monitor3

1. Open the Chooser from the Apple menu and select the SP 700 icon. Then select the port you are using.

2. Under Background Printing, click On and close the Chooser.

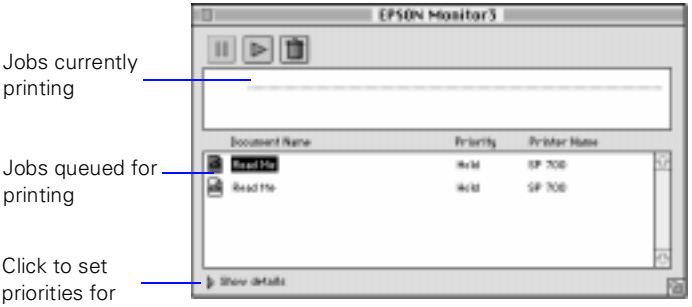
3. To increase the memory allocated to Monitor3, select EPSON Monitor3 in the Extensions folder in your System folder.

4. Choose Get Info from the File menu.

5. Under Memory Requirements, set the Preferred Size to 3000.

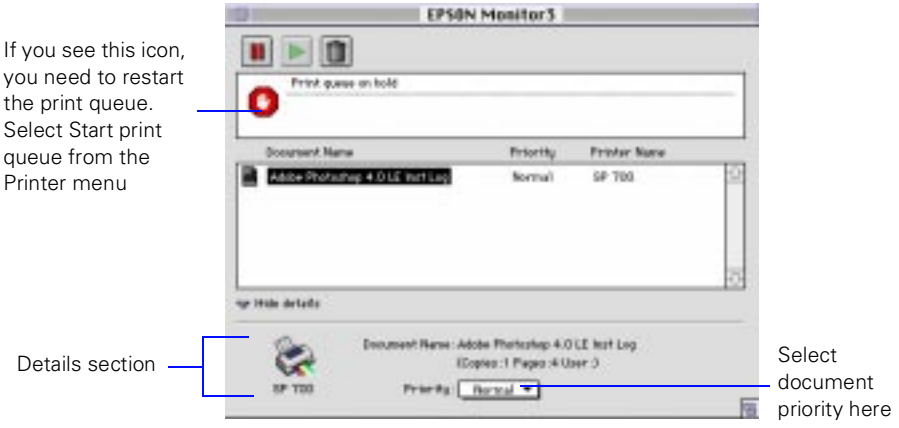
Monitoring Print Jobs with Monitor3

While you're printing, click the EPSON Monitor3 icon on the Application menu at the right end of the menu bar. You see a dialog box like the following:



From this dialog box, you can pause, restart, and cancel print jobs. You can also prioritize print jobs by following these steps:

1. Click the Show details arrow at the bottom of the dialog box. You see an extended dialog box similar to the one below.



2. Select the document you wish to prioritize.

3. Select Urgent, Normal, or Hold from the Priority list. The document moves up or down in the waiting print jobs list.

Using the Macintosh Status Monitor

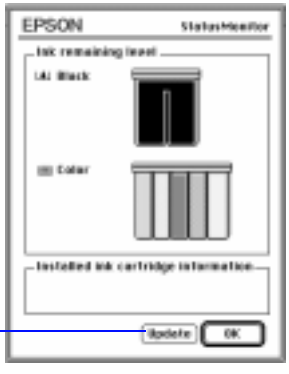
You can use the Status Monitor to check the level of ink in your printer. Follow these steps:

1. Choose **Page Setup** or **Print** from the File menu or click the print icon in your application.

2. Click the **Utility** button. You see the Utility menu:

For information about these three utilities, see Chapter 5

3. Click the **EPSON StatusMonitor** button. The software checks the amount of ink remaining in the printer and displays the Status Monitor window:



Click to recheck ink level

Selecting Configuration Options

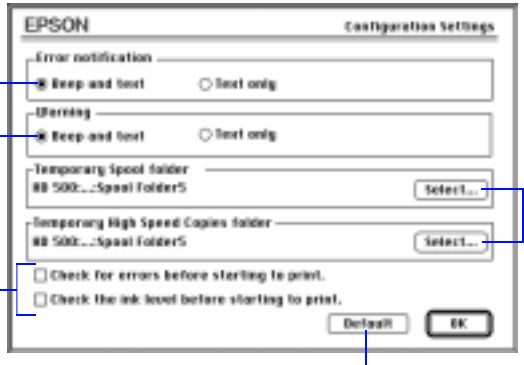
You can configure the way you want the printer to handle error messages, warnings, and ink level checks and set up temporary spool folders on the Configuration Settings dialog box. Follow these steps:

1. Choose **Page Setup** or **Print** from the File menu in your application. You see a printer settings dialog box.

2. Click the **Utility** button. You see the Utility menu.

Click to control messages and warnings

3. Click the **Configuration** button. You see the Configuration Settings dialog box:



Printing stops when these messages appear

Printing continues when these messages appear

Click here to check for errors or to check the ink level before printing

Click to change folder containing spooled print job files

Click to select the default configuration settings

4. Choose the options you want and click **OK**.

5 Maintenance and Transportation

It's easy to keep your EPSON Stylus Photo 700 printer working at its best. All you have to do is follow the simple instructions in this chapter for replacing ink cartridges, moving the printer, and performing routine maintenance.

This chapter covers the following procedures:

- Cleaning the print head
- Replacing an ink cartridge
- Aligning the print head
- Cleaning the printer
- Transporting the printer

Caution:
Don't use the cleaning sheets that may be included with your special media; they may damage the printer.

Cleaning the Print Head

If your printed image is unexpectedly light or faint, or dots are missing from the image, you may need to clean the print head. This unclogs the print head nozzles so they can deliver ink properly.

Cleaning the print head uses ink, so clean it only if print quality declines. You can use either of the following to clean the print head:

- The Head Cleaning utility (recommended) in your printer software (if the printer is on a local port, not on a network)
- The printer's control panel buttons

Using the Head Cleaning Utility

Follow these steps to run the utility:

1. Make sure the printer is turned on but not printing, and that the ♦ black and ♦ color ink out lights are off.
2. Access the printer settings dialog box as described in Chapter 1.
3. Click the **Utility** tab (Windows) or the **Utility** button (Macintosh). You see the Utility menu.
4. Click the **Head Cleaning** button.
5. Follow the instructions on the screen to clean the print head. Cleaning takes about two minutes, during which the printer makes some noise and the ⏻ power light flashes.

   When the ⏻ power light stops flashing, you need to run a nozzle check to confirm that the print head nozzles are clean and to reset the printer's cleaning cycle.
6. Make sure paper is loaded in the printer and click **Print nozzle check pattern** (Windows) or **Confirmation** (Macintosh). Then click **Next**. See page 5-4 for instructions on examining the nozzle check pattern.

If your print quality has not improved, repeat the steps above. If you don't notice any improvement after doing this two or three times, check the print quality solutions in Chapter 6.

Caution:
Never turn off the printer while the ⏻ power light is flashing, unless the printer hasn't moved or made any noise for more than 5 minutes.

Using the Control Panel

Follow these steps to clean the print head:

1. Make sure the printer is turned on and not printing, and that the black and color ink out lights are off.

Caution:
Never turn off the printer while the power light is flashing, unless the printer hasn't moved or made any noise for more than 5 minutes.

2. Press the cleaning button and hold it down for three seconds. Cleaning takes about two minutes, during which the printer makes some noise and the power light flashes.

   After the cleaning cycle is complete and the power light stops flashing, you need to run a nozzle check to confirm that the print head nozzles are clean and to reset the printer's cleaning cycle.

3. Access the printer settings dialog box as described in Chapter 1.

4. Click the **Utility** tab (Windows) or the **Utility** button (Macintosh). You see the Utility menu.

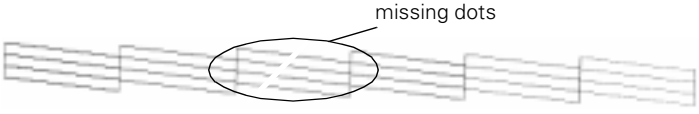
5. Click the **Nozzle Check** button. Then click **Next**. See the next section for instructions on examining the nozzle check pattern.

If your print quality has not improved, repeat the steps above. If you don't notice any improvement after doing this two or three times, check the print quality solutions in Chapter 6.

Examining the Nozzle Check Pattern

Examine the nozzle check pattern after printing it. It should look something like this, with each of the six sections showing one of the ink colors:

Each staggered horizontal and straight vertical line should be complete, with no gaps in the dot pattern. If your printout looks okay, you're done. If any dots are missing, as shown below, clean the print head again, as explained in the previous sections.



Caution:
To ensure good results, use genuine EPSON cartridges and do not refill them. Other products may cause damage to your printer not covered by EPSON's warranty.

Replacing an Ink Cartridge

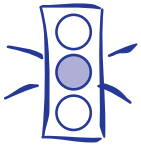
When a black or color ink out light flashes, the indicated cartridge is low on ink. This is a good time to make sure you have a new cartridge. When the light stays on, the cartridge is empty and you need to replace it. You cannot print if either ink cartridge is empty. You can also check your ink levels using the Status Monitor. See page 4-8 (Windows 95) or page 4-16 (Macintosh) for details.

Use these EPSON ink cartridges within six months of installing them and before the expiration date on the package:

- Black ink cartridge: S020093
- Color ink cartridge: S020110

When you need new ink cartridges, contact your dealer or call EPSON Accessories at (800) 873-7766 (U.S. only). In Canada, please call (800) 873-7766 for dealer referral.

Note:
If you press the cleaning button when neither ink out light is flashing or on, the printer cleans the print head as described on page 5-2. If you need to replace an ink cartridge before the lights flash (because the ink is too old, for example) follow the instructions on page 5-7.



Caution:
To avoid damaging the printer, never move the print head by hand.

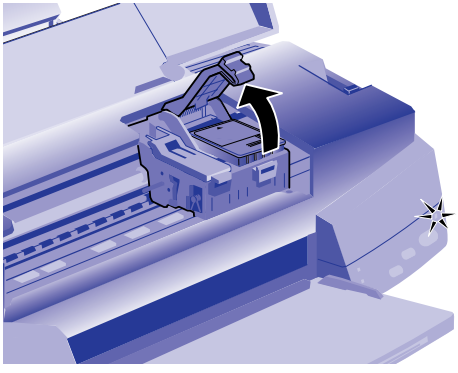
Don't open the clamp or remove a cartridge except to replace it with a new one. Once you remove a cartridge, you can't reuse it. Even if the cartridge contains ink, reusing it may damage the print head.

Removing an Empty Ink Cartridge

You can replace a cartridge when the black or color ink out light is either flashing or on. Follow these steps:

1. Make sure the printer is turned on and not printing.
2. Determine which cartridge needs to be replaced.
3. Lower the output tray and raise the printer cover.
4. Press the cleaning button and hold it for three seconds.

   The print head moves slightly to the left and the power light begins flashing. (The print head returns to its home position if you don't proceed to step 5 within 60 seconds.)
5. Pull up the ink cartridge clamp. The cartridge rises up from its holder. (Although the illustration shows the color ink cartridge, the procedure is the same for replacing the black ink cartridge.)



6. Lift the cartridge out of the printer and dispose of it carefully.
7. Follow the steps in the next section to install the new ink cartridge.

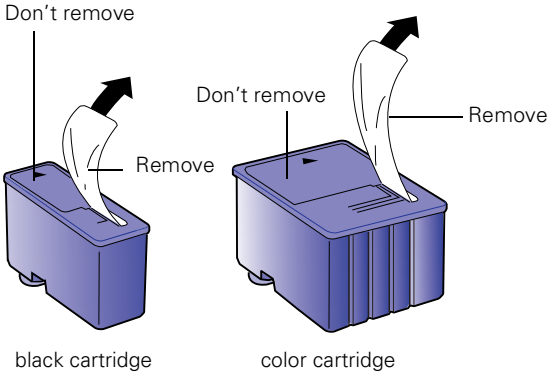
Caution:
You must remove only the yellow tape seal from the top of the cartridge; leaving the tape on will permanently damage it. Do not remove the clear seal from the bottom of the cartridge; ink will leak.

Installing the New Cartridge

Once you have removed the empty cartridge, you're ready to install the new one. Follow these steps:

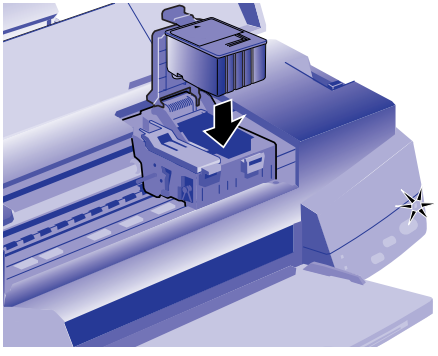
1. Remove the new ink cartridge from its packaging.

2. Remove only the yellow part of the tape seal on the top of the cartridge. Do not remove the white part. (It's OK if the tape does not tear off exactly along the dotted line.)

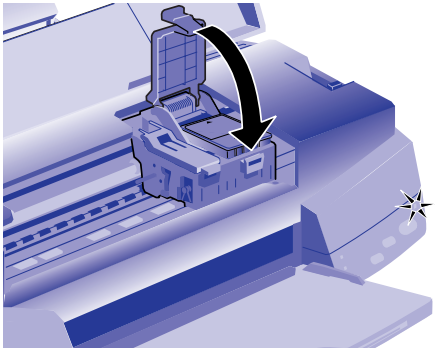


Warning:
If ink gets on your hands, wash them thoroughly with soap and water. If ink gets into your eyes, flush them immediately with water.

3. Lower the ink cartridge into its holder with the label facing up and the arrow pointing to the back of the printer. The larger cartridge (color) goes on the right, the black ink cartridge on the left.



4. Press down the ink cartridge clamp until it locks in place.



5. If you need to replace the other ink cartridge, remove it as described in "Removing an Empty Ink Cartridge" on page 5-5. Then follow steps 1 through 4 in this section.

6. Press the cleaning button and close the printer cover.

   The printer moves the print head and begins charging the ink delivery system. (Even if you don't press the button, ink charging begins 60 seconds after you close the clamp.)

   The power light flashes and the printer makes various sounds. Charging takes about two minutes. When it's finished, you can print again.

Caution:
Never turn off the printer while the power light is flashing, unless the printer hasn't moved or made any noise for more than 5 minutes.

Replacing an Outdated Ink Cartridge

If an ink cartridge is more than six months old, you may need to replace it. How can you tell? You may notice that your printouts don't look as good as they used to. If print quality doesn't improve after cleaning and aligning the print head, you can replace one or both cartridges.

Caution:
To avoid damaging the printer, never move the print head by hand.

Follow these steps to replace an ink cartridge before the black or color ink out light is flashing or on:

1. Make sure the printer is turned on and not printing.
2. Lower the output tray and raise the printer cover.
3. Press the load/eject button and hold it down for a few seconds until the print head moves to the left. (The printer automatically moves the print head back to the home position after 60 seconds if you don't continue with step 4.)
4. Pull up the ink cartridge clamp. The cartridge rises up from its holder.
5. Lift the cartridge out of the printer and dispose of it carefully.
6. Follow the steps in the previous section, "Installing the New Cartridge," to install the new ink cartridge.

For best results, use EPSON ink jet paper or photo quality paper whenever you check the print head alignment.

Aligning the Print Head

If your printouts contain misaligned vertical lines, you may need to align the print head. Follow these steps:

1. Make sure the printer is turned on and paper is loaded.
2. Access the printer settings dialog box as described in Chapter 1.
3. Click the Utility tab (Windows) or the Utility button (Macintosh). You see the Utility menu.
4. Click the Print Head Alignment button.
5. Follow the instructions on the screen to print a test page and select the correct alignment.

Cleaning the Printer

Caution:
Don't touch the gears inside the printer.

Never use alcohol or thinner for cleaning; they can damage the printer components and case.

Don't get water on the printer components.

Don't spray lubricants or oils inside the printer.

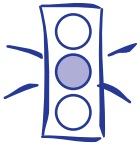
To keep your printer working at its best, you should clean it several times a year, following these steps:

1. Turn off the printer, unplug the power cord, and disconnect the printer cable.
2. Remove all the paper from the sheet feeder.
3. Clean the exterior of the printer with a soft, damp cloth. Keep the printer cover closed so water doesn't get inside.
4. Clean ink out of the printer's interior with a damp cloth.

Transporting the Printer

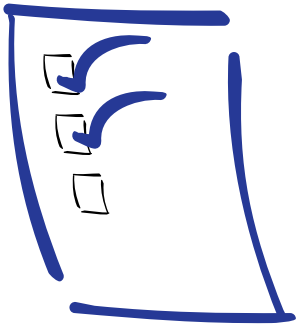
If you want to move your printer some distance, you need to prepare it for transportation and repack it in the original box. Follow these steps:

1. Turn on the printer and wait until the print head locks in the far right position. Then turn off the printer.
2. Unplug the power cord from the electrical outlet. Then disconnect the interface cable from the printer.
3. Remove any paper from the sheet feeder and remove the paper support.
4. Push in the output tray extensions and close the tray.
5. Repack the printer and attachments in the original box using the protective materials that came with it. See the Notice Sheet that was packed with the printer.



Caution:
To avoid damage, always leave the ink cartridges installed when transporting the printer.

Be sure to keep the printer flat as you transport it. If you notice a decline in print quality after transporting the printer, clean the print head; if output is misaligned, align the print head. See the instructions in this chapter.



6 Troubleshooting

As you use your printer, you may occasionally experience a paper jam or other problem. The first thing you should do is diagnose the problem, following the guidelines in this chapter. Then try the most likely solutions until the problem is fixed.

This chapter tells you everything you need to know about the following:

- Diagnosing problems
- Improving print quality
- Solving printing problems
- Solving printer software problems
- Fixing paper jams and other paper problems
- Solving miscellaneous printout problems

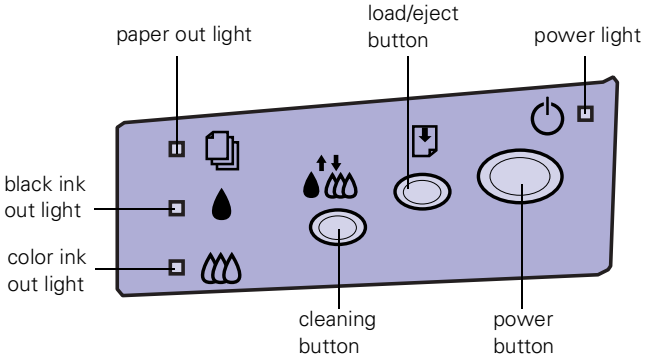
Diagnosing Problems

Your printer includes a number of ways to help you diagnose problems:

- To identify the most common problems, check the lights on the printer's control panel. See "Checking the Control Panel Lights" in the next section.
- You can also use the Status Monitor utility to identify common problems. For instructions, see page 4-5 (Windows 95) or page 4-16 (Macintosh).

- To determine whether the problem is caused by the printer itself, run a printer operation check. See "Running a Printer Check" on page 6-3 for instructions.
- For the latest information, check the EPSON Stylus Photo and Status Monitor Help programs and ReadMe files in the EPSON program group or folder.
- There are additional troubleshooting tips in the "Problems, Need Help" section of your *Getting Started* guide.
- If none of the suggested solutions in this chapter solve your problem, contact EPSON as described under "Where To Get Help" in the Introduction.

Checking the Control Panel Lights



The four lights on your printer's control panel show the printer's status and alert you to problems like paper jams.

When the paper out light comes on, your paper ran out or is incorrectly loaded. Load paper in the sheet feeder and then press the load/eject button.

When the paper out light *flashes*, you have a paper jam. Take all of the paper out of the sheet feeder, reload the paper, then press the load/eject button. If the light continues to flash, turn off the printer and gently pull out any jammed paper.

or When an ink out light *flashes*, your ink supply is low. Make sure you have a replacement cartridge.

♦ or 🖋	When an ink out light comes on, you need to replace the ink cartridge. See page 5-4 for instructions.
⏻	The power light is on when the printer is on. The power light *flashes* when the printer is receiving a print job or performing a maintenance operation such as cleaning a print head.
⏻ ♦ 🖋	When the power and paper out lights flash and the ink out lights are on, you have a carriage error. Turn off the printer by pressing the ⏻ power button; wait several seconds; then turn it on again. If this does not clear the error condition, contact EPSON as described in the Introduction.
⏻ ♦ 🖋	When all the lights flash, your printer may have an internal error. Turn off the printer by pressing the ⏻ power button; wait several seconds; then turn it on again. If this does not clear the error condition, contact EPSON as described in the Introduction.

Running a Printer Check

You can run a printer check to determine whether the problem comes from the printer itself or some other source.

- If the results are satisfactory, the problem lies in software settings, the interface cable, or your computer.
- If the printer check does not print correctly, there is a problem with your printer. See the suggestions in this chapter for possible solutions.

Follow these steps to check the printer:

1. Make sure both the printer and computer are turned off.
2. Disconnect the interface cable from the printer.
3. Make sure paper is loaded in the printer.
4. Hold down the load/eject button and press the ⏻ power button. Hold down the buttons until the ⏻ power light starts to flash. Then release both buttons.

The printer prints one page containing the printer's ROM version, ink counter code, character table number, and a nozzle check pattern. Only the nozzle check pattern is shown below:

5. After it prints the page, turn off the printer. Remember to reconnect the interface cable, then turn on the printer and your computer.

Using the Printer and Option Information Utility

If you are running Windows 95 or Windows NT 4.0, you can use the Printer and Option Information utility to confirm printer configuration information. Color quality may improve after confirming the printer configuration information.

If you are running Status Monitor 2 (Windows 95 only), the printer configuration information is updated automatically. Under certain circumstances, you may need to input some information manually. If a message appears in the Current Settings window prompting you to enter settings or if you change the printer's configuration, follow the steps below to make the necessary settings manually:

1. Make sure letter size paper is loaded in your printer.

2. In the printer settings window, click the Utilities tab, then click the Printer and Option Information icon.

3. Click the Settings Sheet button. You see a printout similar to the one below:

```
Printer ID
 50- 50- 50- 50- 50- 50
```

4. Make sure the settings in the utility match the information on the printed Settings Sheet. If they do not match, correct the settings on the screen to match the information on the settings sheet.

5. Click **OK** to exit and save your settings.

Uninstalling Printer Software

If any of the suggested solutions in this chapter tell you to uninstall and then reinstall your printer software, follow the steps in this section.

Note:
In Windows NT 4.0, you cannot uninstall the printer software using the Add/Remove Programs utility. See the EPSON Stylus ReadMe file in your EPSON Printer program group for uninstall instructions.

Windows 95 Instructions

1. Double-click the **My Computer** icon, then double-click the **Control Panel** icon.

2. Double-click **Add/Remove Programs**.

3. To uninstall the printer software, select **EPSON Printer Software** in the program list.

   To uninstall Status Monitor 2, select **EPSON Status Monitor 2** in the program list. Background monitoring must be turned off before removing Status Monitor 2.

4. Click the **Add/Remove** button. Follow the instructions on the screen to uninstall your software.

5. Restart your computer.

6. To reinstall your software, see the *Getting Started* guide.

Windows 3.1 Instructions

1. Double-click the Main program group icon, then double-click the Control Panel icon.
2. Double-click Printers.
3. Select EPSON Stylus Photo 700 in the Installed Printers list and click the Remove button.
4. To reinstall your software, see the *Getting Started* guide.

Macintosh Instructions

1. Insert the EPSON printer software CD-ROM in your drive.
2. Double-click the Installer icon. Then click Continue.
3. Click the arrow in the list at the top showing Easy Install, and select Remove from the list.
4. Click the Remove button at the bottom of the screen.
5. Follow the instructions on the screen to uninstall the printer software.
6. To reinstall your software, see your *Getting Started* guide.

Improving Print Quality

You can often improve print quality by doing one of the following:

- Clean the print head; the print head nozzles may be clogged (see page 5-1 for instructions).
- Use higher quality paper appropriate for your print job (see page 3-2 for a list of EPSON papers).
- Match the Media Type setting in the printer settings dialog box to the type of media you loaded in the printer. Then the printer software can automatically select other settings for the best quality (see Chapters 1 and 3 for details).
- Turn off **High Speed** mode (see page 2-4 for details).
- Turn off **Economy** mode (see page 2-4 for details).
- Replace the ink cartridges. If an ink cartridge is low on ink (the ♦ black or ♦ color ink out light is flashing) or the ink cartridge is more than six months old, the cartridge should be replaced. See page 5-4 for instructions.
- If you have vertical misalignment, run the Print Head Alignment utility (see page 5-8 for instructions) or turn off High Speed mode.

Try the solutions listed above before trying these solutions to specific print quality problems.

The printed image has horizontal banding

Possible cause	Solution
The printable side of the paper is face down.	Remove the paper and reload it with the printable side face up. See page 3-3 for instructions.
The **MicroWeave** (or **Super MicroWeave**) option is not set.	Turn on **MicroWeave** (or **Super MicroWeave**) in the More Settings dialog box. See page 2-4 for more information.

The printed image has incorrect or missing colors

Possible cause	Solution
The **Ink** option is set to **Black**.	Change the **Ink** setting to **Color**. See page 1-2 (Windows) or page 1-7 (Macintosh) for instructions.
The printable side of the paper is face down.	Remove the paper and reload it with the printable side face up. See page 3-3 for instructions.
The **Halftoning** and **Color Adjustment Mode** options are set incorrectly for your document type.	Use the correct settings for the project you're printing, following the instructions on page 2-2 and page 2-4.
The **ICM** (Windows 95) or **ColorSync** (Macintosh) settings are incorrect for your document.	Use the **Automatic** mode setting or choose a different project type or **Rendering Intent** setting (Macintosh). See Chapter 2 for more information.
The ink cartridges are low on ink or one or more ink colors are empty.	Check the black and color ink out lights to see which cartridge you may need to replace. See page 5-4 for instructions.
The colors displayed on your monitor don't match the printed colors.	Because your monitor and printer use different technologies to represent colors, your printed colors cannot exactly match the colors you see on your monitor screen. Use the **ICM** (Windows 95) or **ColorSync** (Macintosh) settings. See page 2-4 and page 2-8 for more information.
The color settings in your application software need adjustment.	You may be able to adjust various color settings in your application software. See your software documentation for more information.

The printed image is blurry or smeared

Possible cause	Solution
The loaded paper is damaged, old, or dirty.	Remove the paper and reload a new stack with the printable side face up. See page 3-3 for instructions.
The printer's thickness lever is in the 0 position.	Set the thickness lever to the + position and try printing again. See page 3-5 for instructions.
The paper is damp or the printable side is face down.	Remove the paper and reload a new stack with the printable side face up. See page 3-3 for instructions.
You loaded special media without a support sheet.	Follow the special media loading instructions on page 3-2 and on the paper packaging for media that require support sheets. Also try loading your media one sheet at a time.

Possible cause	Solution
You tried to print on cardboard or other non-recommended media.	Make sure your paper or media meets the specifications listed in Appendix B. If your printouts are still blurry after you change paper, clean the print heads as described on page 5-1.
Ink has leaked inside the printer.	Clean carefully inside the printer to remove spilled ink. See page 5-9 for instructions.

Color documents print in black and white

Possible cause	Solution
Your printer is not selected in your application.	Select your printer and port in your software application.
Color printing is not selected.	Select color printing in your application and the printer software.

Solving Printing Problems

If the printer won't print, first check that:

- The printer is turned on and the ⏻ power light is on, but not flashing.
- Paper is loaded in the printer.
- The printer is plugged into a working electrical outlet that's not controlled by a switch or timer.
- The interface cable is securely connected to the printer and computer and both are turned on.

If you still can't print, check the following solutions.

All lights are off

Possible cause	Solution
The printer is not receiving power.	Try these solutions: ◗ Make sure the printer is turned on. ◗ Turn off the power and plug in the power cord securely. ◗ Try using another power outlet.

Only the ⏻ power light is on, but nothing prints

Possible cause	Solution
The interface cable is not connected securely.	Turn off your printer and computer. Then make sure the cable is connected securely and meets the printer's specifications. (Use a fully shielded IEEE parallel cable on a PC or a Macintosh serial cable.)
The printer has an internal problem.	Turn off the printer and computer, disconnect the interface cable, and run a printer check as described on page 6-3.
Your printer software or application software is installed incorrectly.	If you ran a printer check successfully, make sure your printer and application software are installed correctly. If you're printing on a network, you may need to set up your printer for network printing, as described in Appendix A.
Your computer doesn't have enough memory to handle the data in the file you are printing.	Try one of the following: ◗ Reduce the resolution of your image. ◗ Select fewer colors or a lower resolution for your monitor. ◗ Add more memory to your computer.
Printing is stalled.	In Windows, delete the stalled print jobs in Spool Manager; see page 4-4 for instructions. On a Macintosh, delete stalled print jobs using EPSON Monitor3 (see page 4-15) or open the Extensions folder, EPSON folder, and Spool folder, and then delete any queued files.
Your printer can't use the modem port (Macintosh).	If your Macintosh has a built-in modem, connect the printer to the printer port.

The printer sounds as though it is printing, but nothing prints

Possible cause	Solution
The print head nozzles are clogged.	Clean the print head nozzles; see page 5-1 for instructions. If this does not work after two or three times, see below.
One or both of the ink cartridges are too old.	Try cleaning the print head. If that doesn't work, replace the ink cartridges as described on page 5-7.

The paper out light is flashing or on

Possible cause	Solution
If flashing, paper is jammed.	Remove the paper and follow the guidelines for preventing jams on page 6-15.
If on, paper is used up or loaded incorrectly.	Load paper or remove the stack and reload it as described in the *Getting Started* guide or page 3-3. Then press the load/eject button to turn off the light and resume printing.

A black or color ink out light is flashing or on

Possible cause	Solution
If flashing, the ink supply is getting low.	You need to replace the indicated ink cartridge soon. Make sure you have a new cartridge, then see page 5-4 for instructions.
If on, the ink cartridge is empty.	You must replace the indicated ink cartridge; see page 5-4 for instructions.

The and lights are flashing

Possible cause	Solution
A carriage error has occurred.	Remove any paper in the printer. Press the load/eject button for about 30 seconds. Then press it again. Turn the printer off, wait a few seconds, and then turn it on and try printing again. If the error is not cleared, contact EPSON as described in the Introduction.

All the lights are flashing

Possible cause	Solution
You haven't removed all the packing material from the printer.	Remove the packing material, following the instructions on the Notice Sheet in the box.
An internal error may have occurred.	Turn off your printer, wait a few seconds, and turn it on again. If the lights still flash or stay on, contact EPSON as described in the Introduction.

The printer has finished charging the ink cartridge, but the power light is still flashing

Possible cause	Solution
The ink cartridge clamp isn't locked down.	Press down on the clamp to lock it into place.
Packing material remains in the printer.	Remove the packing material, following the instructions on the Notice Sheet in the box.
The printer needs to initialize.	If the printer is not moving or making noise, but the light is still flashing after 5 minutes have passed, turn the printer off. If the light is still flashing when you turn it back on, contact EPSON as described in the Introduction.
The printer may be receiving data from the computer.	Turn the printer and computer off. Disconnect the printer from the computer. Turn the printer on. If the light continues to flash for more than 5 minutes, contact EPSON as described in the Introduction.

Solving Printer Software Problems

If you have trouble with your printer software, first check that your printer is selected as the default Windows printer or as the current printer in the Macintosh Chooser; see your *Getting Started* guide.

If you still have problems with your printer software, check the following solutions. If you need to uninstall the printer software, see page 6-5.

After you install your printer software, you see the Windows 95 New Hardware Found window

Possible cause	Solution
An operating system error has occurred.	Click **Do not install a driver**, and then click **OK**. **Never select any other option on the New Hardware Found window**.

In Windows 95, the Status Monitor 2 window doesn't appear

Possible cause	Solution
You may not have restarted your computer after installing Status Monitor 2.	Click **Start**, select **Shut Down**, click **Restart the computer**, and click **Yes** to restart your computer. Then try using Status Monitor 2.
Bi-directional support is not enabled.	Make sure your printer is connected to your computer with a bi-directional cable. Then click **Start**, select **Settings**, and click **Printers**. Right-click the **EPSON Stylus Photo 700** icon and select **Properties**. Click the **Details** tab, then click the **Spool Settings** button. Click the **Enable bi-directional support for this printer** radio button to turn on bi-directional support. Click **OK** twice, then close the Printers window and try printing again.

After you install your printer software, you can't run ScanDisk (Windows 95)

Possible cause	Solution
You cannot use ScanDisk if Status Monitor 2 is active.	Disable Status Monitor 2 whenever you want to run ScanDisk. See page 4-5 for details.

You see a spooling error message (Windows)

Possible cause	Solution
Spooling error messages or very slow printing may be caused by temporary files.	Change the Spool Manager default spool directory, following the instructions on page 4-12.
Your hard drive is too full.	Delete unnecessary files to make room on the drive.
Your computer doesn't have enough memory for the file you're printing.	Try one of the following: ◗ Reduce the resolution of your image. ◗ Select fewer colors or a lower resolution for your monitor. ◗ Add more memory to your computer.

You see a type 11 or memory error message (Macintosh)

Possible cause	Solution
You may need to increase the memory allocation for your application, EPSON Monitor3, or both.	Choose **Get Info** from the File menu when your application is active or EPSON Monitor3 is selected and increase the memory requirements. See page 4-14 for more information. If this doesn't work, turn off background printing (you won't be able to use EPSON Monitor3).
Your system doesn't have enough RAM.	If your system has virtual memory, use this to simulate having more RAM. If this doesn't work, free up more space on your hard drive by deleting unwanted files. See your computer documentation for details.

Your printer switches to the modem port or won't confirm on the printer port (Macintosh)

Possible cause	Solution
Your system has extension conflicts.	Make sure AppleTalk® is inactive. In the Chooser, set any Apple serial printer to the printer port. Close and reopen the Chooser; then select the **SP 700** icon. Close the Chooser.
You're using an AppleTalk cable.	Make sure you're using a standard Apple System Peripheral-8 cable, and it's securely connected at both ends.

You are unable to use EPSON Monitor3 (Macintosh)

Possible cause	Solution
EPSON Monitor3 is not installed or is corrupted.	Install (or reinstall) EPSON Monitor3 and make sure background printing is turned on.

The "SP 700 cannot be used" message appears (Macintosh)

Possible cause	Solutions
The printer software has been corrupted.	Remove and reinstall the printer software as described on page 6-5. Then, in the Extensions Manager, disable Quick Draw GX. Select SP 700 in the Chooser, enable Monitor3, and restart your Macintosh.

Your printer icon doesn't appear in the Chooser (Macintosh)

Possible cause	Solution
Your system has extension conflicts.	In the Extensions Manager, disable Quick Draw GX. Choose SP 700 in the Chooser, make sure EPSON Monitor3 is enabled, then restart your Macintosh.

You sent several print jobs, but none are printing (Macintosh)

Possible cause	Solution
The print queue is on hold.	In the EPSON Monitor3 dialog box, select Start print queue from the Printer menu to release the queue and resume printing.

You get a type 39 error on the Macintosh

Possible cause	Solution
The printer driver is corrupted.	Delete and reinstall the printer driver as described on page 6-6.

You cannot print on a Windows NT 4.0 network

Possible cause	Solution
Your printer is not set up correctly as a remote printer.	You may need to use a different network path and printer port. Select a different port in the printer's Properties windows and enter the new network path to your printer at the DOS prompt. Then restart your computer. See your Windows NT documentation for instructions on changing the printer port and network path.

Printing is too slow

Possible cause	Solution
Your printer software options are set incorrectly.	For the fastest printing, try the following: ◗ Set **Print Quality** to **Economy**. ◗ Turn **MicroWeave** off. ◗ Turn **High Speed** on. ◗ Choose **Black** ink and **No Halftoning**. See Chapters 1 and 3 for more information.
Your system doesn't have enough resources.	◗ Clear space on your hard disk or run a defragmentation utility. ◗ Don't run too many applications at the same time. ◗ Turn off virtual memory. ◗ Increase your system's memory (RAM).
You're using background printing on a Macintosh.	Select EPSON Monitor3 and choose **Get Info** from the File menu to increase the Memory Requirements for EPSON Monitor3. See page 4-14 for more information. If that doesn't work, turn off background printing (you won't be able to use EPSON Monitor3).
You're not using ECP mode and/or DMA transfers.	If your computer supports ECP mode and/or DMA transfers, turn them on to speed up printing. See your computer documentation for details.

Fixing Paper Problems

You can avoid most paper handling problems by doing the following:

- Use smooth, high-quality media designed for ink jet printers that meets the media specifications on page B-2.
- Follow all loading and handling instructions included with the media.
- Load the media with the printable side face up, as described in the *Getting Started* guide or on page 3-3.

If you have problems with paper feeding, paper jams, or ejected paper, check here for solutions.

Paper doesn't eject fully or is wrinkled

Possible cause	Solution
If the paper doesn't eject fully, you may have set the wrong paper size.	Press the load/eject button to eject the paper. Then make sure you select the correct paper size in your application or printer software. (See the paper specifications on page B-2 for the paper sizes you can print with.)
If it's wrinkled when it comes out, the paper may be damp or too thin.	See the paper specifications on page B-2 for paper thicknesses you can print with, as well as environmental requirements for storage.

Paper doesn't feed

Try this	Then do this
Remove the stack of paper from the sheet feeder.	Check that the paper: ◗ Isn't curled or creased. ◗ Isn't too old (see page 3-3 or your paper packaging for more information). ◗ Isn't loaded above the arrow on the left edge guide. ◗ Isn't jammed inside the printer. (If the paper out light is flashing, paper is jammed.) Then reload the paper as described on page 3-2, making sure the left edge guide is adjusted to fit the paper's width.

Paper jams inside the printer

Try this	Then do this
Turn off your printer, open the cover, and remove all the paper that's inside, including any small pieces that may have torn off.	Reload the paper as described in the *Getting Started* guide and Chapter 3. If your paper jams frequently, make sure you: ◗ Use smooth, high-quality paper, loaded printable side up. ◗ Fan the stack and then even the edges before loading it. ◗ Don't load paper above the arrow mark on the left edge guide. ◗ Adjust the left edge guide to fit the width of your paper.

Multiple pages feed at the same time

Try this	Then do this
Remove the stack of paper from the printer.	◗ Make sure the paper isn't too thin (see the paper specifications on page B-2). ◗ Fan the edges of the stack of paper to separate the sheets. ◗ Reload the paper as described in the *Getting Started* guide and in Chapter 3. ◗ Make sure the paper edge guides are snug against the edge of the paper. ◗ If too many copies of a page or document are printing, check the **Copies** settings in both the printer software and your application program. See page 2-12 (Windows) or page 2-17 (Macintosh) for more information.

Solving Miscellaneous Printout Problems

If your printout results are not what you expected, try these solutions.

Characters are incorrect or garbled

Possible cause	Solution
Your printer is not the Windows default printer.	Select your printer as the default Windows printer. See your Windows documentation or Windows online help for instructions.
Your printer is not selected in the Macintosh Chooser.	Open the Chooser and select your printer. See the *Getting Started* guide for instructions.
If you're using background printing on a Macintosh, spooled data may be corrupted.	Open the Extensions folder, EPSON folder, and Spool folder. Then delete any queued files. Increase the memory requirements for EPSON Monitor3, following the instructions on page 4-14.
AppleTalk is activated on a Macintosh.	If your printer is connected to the printer port, open the Chooser and make sure AppleTalk is inactive. Then turn your computer off and back on.
Printing is stalled.	In Windows, delete the stalled print jobs in Spool Manager (see page 4-4 for instructions). On a Macintosh, select the stalled print jobs in EPSON Monitor3 (see page 4-15) or open the Extensions folder, EPSON folder, and Spool folder, and then delete any queued files.

Possible cause	Solution
The interface cable is not securely connected.	Turn off your printer and computer. Then make sure the cable is connected securely and meets the printer's specifications.
You're using a switch box with your printer.	Connect the printer directly to your computer and try printing again.
Your video driver may be conflicting with the EPSON printer driver (Windows only).	Try using a standard VGA video driver (see your computer or video card documentation for instructions on changing video drivers). If your printout is correct, your video driver is interfering with the printer driver. Contact your computer or video card manufacturer to see if an updated driver is available.

The margins are incorrect

Possible cause	Solution
Margins are set incorrectly in your software application.	Check your software documentation for instructions on selecting the correct margins for your paper size. Make sure the margins are within the printable area of the page. See Appendix B for more information.
Paper settings in the printer software are incorrect for your paper size.	Select the correct paper settings for your paper size. Make sure the **Printable Area** setting is correct for your project. See Chapters 1 and 3 for more information.

The image is inverted, as if viewed in a mirror

Possible cause	Solution
You used a **Flip Horizontal** option in your application software or the printer software.	Turn off the **Flip Horizontal** or mirror setting in your application software or the printer software. See page 2-4 for information.

A portion of your image doesn't print (Macintosh)

Possible cause	Solution
Your system doesn't have enough available memory.	Close any other applications you are running or turn off background printing.
You may need to increase the memory allocation for your application, EPSON Monitor3, or both.	Choose **Get Info** from the File menu and increase the memory requirements. See page 4-14 for more information. If this doesn't work, turn off background printing (you won't be able to use EPSON Monitor3).

The printer prints blank pages

Possible cause	Solution
Your printer is not the Windows default printer.	Select your printer as the default Windows printer. See your Windows documentation or Windows online help for instructions.
Your printer is not selected in the Macintosh Chooser.	Open the Chooser and select your printer. See the *Getting Started* guide for instructions.
Paper settings in the printer software are incorrect for your paper size.	Select the correct paper settings for your paper size. See Chapter 1 for more information.
The print head nozzles are clogged.	Clean the print head following the instructions on page 5-1.

Something on the page is wrong or missing

Possible cause	Solution
You have the wrong port selected on your Macintosh.	If your Macintosh has only one serial port, open the Chooser, click the SP 700 icon, and then select the modem port.
Your Macintosh has a built-in modem.	Connect the interface cable to the printer port. Then open the Chooser, click the SP 700 icon, and then select the printer port.

A Network Printing

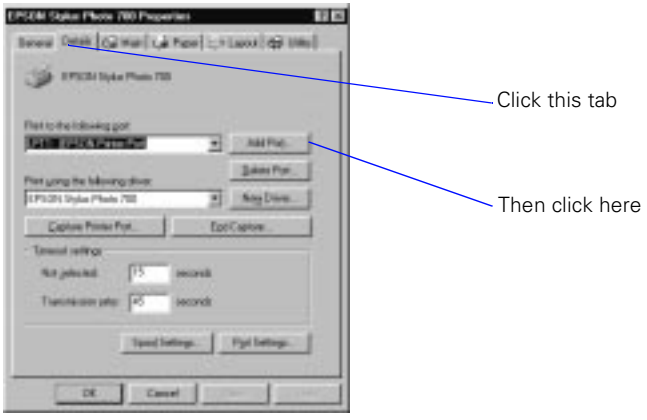
You can use your printer on a network under Windows 95, Windows 3.1, Windows NT 4.0, and other network operating systems. See the appropriate section below for your operating system.

Network Printing in Windows 95

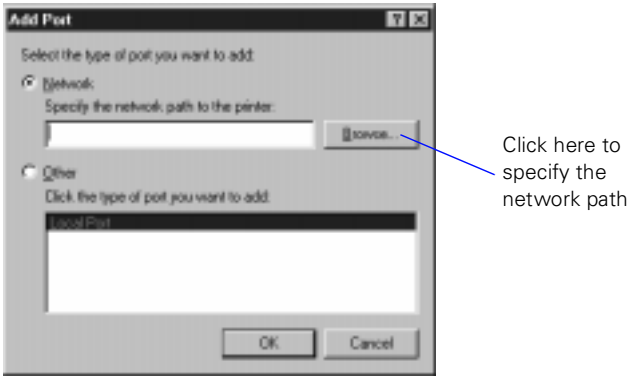
If you want to print to a remote printer through a Windows 95 network, you must first set up your Windows 95 system as a client computer which can use the printer on a remote server. To set up the print server, see your Windows 95 documentation. To set up your system as a client, follow the instructions below:

1. Make sure your printer software is installed (see the *Getting Started* guide for installation instructions).
2. Double-click the My Computer icon.
3. Double-click the Printers folder.
4. Right-click the icon of your printer, and click Properties.

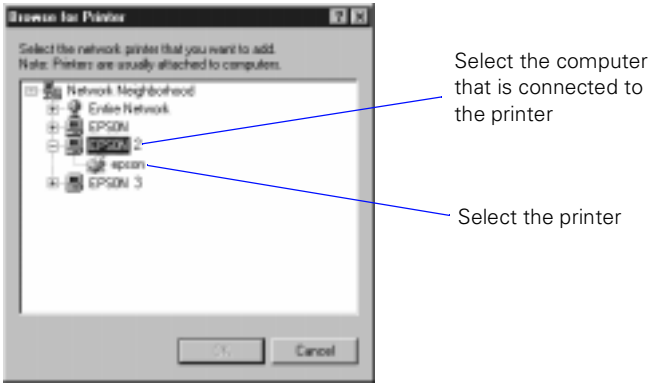
5. Click the **Details** tab. Then click the **Add Port** button.



6. In the following dialog box, click **Browse**.



7. Double-click the icon of the computer that is directly connected to the printer. Then click the icon of the printer you plan to use on the network.



8. Click OK and follow the messages on the screen.

Now you can use the printer connected to the print server over the network from the client computer.

Network Printing in Windows 3.1

For printing on a Windows 3.1 network, you need to install the EPSON Stylus Photo 700 printer software on each computer that is going to print on the network. Then run Spool Manager and identify the shared directory to use for journal files. After you set this up on the print server (the system connected to the printer), you need to perform a similar procedure on each client system on the network.

Setting Up the Print Server in Windows 3.1

Follow these steps to set up the computer connected to the printer:

1. Create an icon for the EPSON Spool Manager (EPSPMGR4.EXE) in the \WINDOWS\SYSTEM folder.
2. Place this icon in the StartUp folder.
3. Open the Spool Manager window as described on page 4-11.
4. In the Spool Manager window, double-click the queue you want to use for network printing. The Queue Setup dialog box appears.
5. Click the Remote Despool tab and then click the Printing from remote queues option.
6. Click the Browse button and select the server directory that will receive journal files.
7. Click OK and minimize the Spool Manager.

Setting Up Client Systems in Windows 3.1

Follow these steps to set up computers on the network:

1. Create an icon for the EPSON Spool Manager (EPSPMGR4.EXE) in the \WINDOWS\SYSTEM folder.
2. Open the Spool Manager window as described on page 4-11.
3. In the Spool Manager window, double-click the queue you want to use for network printing. The Queue Setup dialog box appears.
4. Click the Spool to remote printer button.

Note:
See your *Getting Started* guide for printer software installation instructions.

5. Click the **Browse** button and select the directory you're using for journal files on the server.

6. Click **OK** and minimize the Spool Manager.

Network Printing in Windows NT 4.0

If you are connecting the printer directly to a print server and sharing access to it on the network, see your Windows NT 4.0 documentation for connection instructions for client workstations.

B Technical Specifications

Printing

Printing method EPSON's exclusive drop-on-demand Micro Piezo ink jet technology

Nozzle configuration

Black 32 nozzles

Color 32 nozzles × 5 (cyan, magenta, yellow, light cyan, light magenta)

Printable columns and printing speeds

Print quality	Printable width	Available dots	CR speed
180 dpi	8.26 inches (209.8 mm)	1488	20 ips
360 dpi	8.26 inches (209.8 mm)	2976	20 ips
720 dpi	8.26 inches (209.8 mm)	5952	20 ips
1440 dpi	8.26 inches (209.8 mm)	11904	20 ips

dpi = dots per inch, ips = inches per second

Resolution Maximum 1440 dpi × 720 dpi

Print direction Bidirectional with logic seeking

Control code ESC/P Raster™

Paper

Paper type	Size	Paper types	Thickness	Weight
Single sheets	Letter (8.5 × 11 inches) Legal (8.5 × 14 inches) Statement (5.5 × 8.5 inches) Executive (7.5 × 10 inches) A4 (210 × 297 mm) A5 (148 × 210 mm) B5 (182 × 257 mm)	Plain bond paper and special ink jet papers distributed by EPSON	0.003 to 0.004 inch (0.08 to 0.11 mm) for plain bond paper	17 to 24 lb (64 to 90 g/m^2) for plain bond paper
Transparencies, Glossy film, Glossy paper	Letter (8.5 × 11 inches) A4 (210 × 297 mm) A6 (105 × 148 mm, glossy film only)	Transparencies, glossy paper, and glossy film distributed by EPSON	—	—
Adhesive sheets	A4 (210 × 297 mm)	Self adhesive sheets distributed by EPSON	—	—
Envelopes	No. 10 9.5 × 4.1 inches (240 × 104 mm) DL 8.7 × 4.3 inches (220 × 110 mm) C6 4.4 × 6.4 inches (114 × 162 mm)	Plain bond paper or air mail paper	0.006 to 0.017 inch (0.16 to 0.43 mm)	12 to 20 lb (45 to 75 g/m^2)
Index (ink jet) cards	A6 (105 × 148 mm) 10 × 8 inches (254 × 203 mm)	Ink jet cards distributed by EPSON	—	—
Photo paper	Letter (8.5 × 11 inches) A4 (210 × 297 mm) 4 × 6 inches (102 × 152 mm) Panoramic (210 × 594 mm)	Photo paper distributed by EPSON	—	—
Photo stickers	A6 (105 × 148 mm), 16 frames per page	Photo stickers distributed by EPSON	—	—
Iron-on cool peel transfer paper	Letter (8.5 × 11 inches)	Transfer paper distributed by EPSON	—	—

Note:
Since the quality of any particular brand or type of paper may be changed by the manufacturer at any time, EPSON cannot attest to the quality of any non-EPSON brand or type of paper. Always test samples of paper stock before purchasing large quantities or printing large jobs.

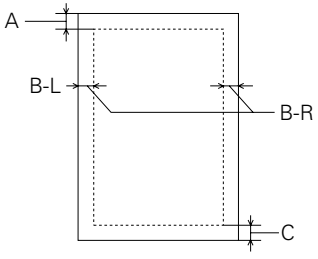
Poor quality paper may reduce print quality and cause paper jams and other problems. If you encounter problems, switch to a higher grade of paper.

Do not load curled or folded paper.

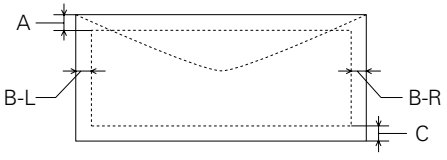
Special papers distributed by EPSON are only usable under normal conditions:
Temperature: 59 to 77 °F (15 to 25 °C)
Humidity: 40 to 60% RH

Printouts on EPSON Photo Quality Glossy Film should be stored under the following conditions:
Temperature: 59 to 86 °F (15 to 30 °C)
Humidity: 20 to 60% RH

Printable area



single sheets/index cards



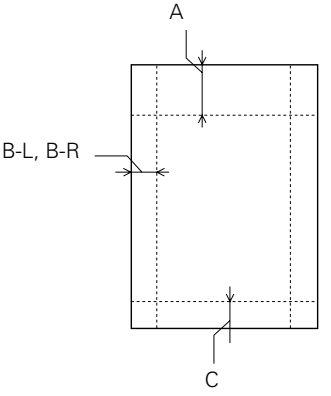
envelope

A: The minimum top margin is 0.12 inch (3.0 mm).
When loading multiple sheets of EPSON Photo Quality Film, the minimum top margin is 1.2 inches (30 mm).

B: The minimum left and right margins are 0.12 inch (3.0 mm).

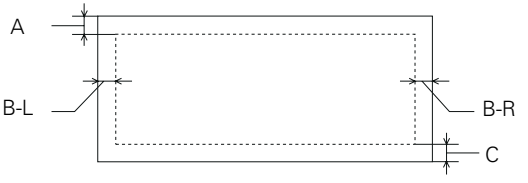
The minimum right margin for envelopes is as follows:
0.28 inch (7 mm) for DL envelopes.
1.10 inches (28 mm) for No. 10 envelopes.
0.12 inch (3 mm) for C6 envelopes.

C: The minimum bottom margin is 0.54 inch (14.0 mm).



EPSON 4 × 6-inch Photo Paper
(dotted lines indicate perforations)

A: The maximum top margin is 0.67 inch (17.0 mm).
B-L,
B-R: The maximum left and right margin is 0.24 inch (6.1 mm).
C: The maximum bottom margin is 0.24 inch (6.1 mm).



EPSON Panoramic Photo Paper

A: The minimum top margin is 0.12 inch (3.0 mm).
B-L: The minimum left margin is 0.12 inch (3.0 mm).
B-R: The minimum right margin is 0.54 inch (14.0 mm).
C: The minimum bottom margin is 0.12 inch (3.0 mm).

Note:
Always load paper into the sheet feeder short edge first. However, envelopes should be loaded long edge first.

Ink Cartridge

Specification	Black ink cartridge (S020093)	Color ink cartridge (S020110)
Color(s)	Black	Cyan, Magenta, Yellow, Light Magenta, Light Cyan
Print capacity*	540 pages/A4 (ISO/IEC 10561 Letter Pattern at 360 dpi)	220 pages (A4, 360 dpi, 5% duty each color)
Cartridge life	2 years from production date (if unopened) (within 6 months after opening package, at 77 °F (25 °C))	
Storage temperature	Installed: –4 to 104 °F (–20 to 40 °C) 1 month at 104 °F (40 °C) Uninstalled: –22 to 104 °F (–30 to 40 °C) 1 month at 104 °F (40 °C)	
Transit temperature	–22 to 140 °F (–30 to 60 °C) 1 month at 104 °F (40 °C) 120 hours at 140 °F (60 °C)	
Freezing temperature**	5 °F (–15 °C)	1.4 °F (–17 °C)
Dimensions	0.7 (W) × 2.1 (D) × 1.5 (H) inches 19.8 (W) × 52.7 (D) × 38.5 (H) mm	2.0 (W) × 2.1 (D) × 1.5 (H) inches 51.4 (W) × 52.7 (D) × 38.5 (H) mm

* The print capacity may vary, depending on how often you clean the print head.

** Cartridges thaw and are usable after approximately 3 hours at 77 °F (25 °C).

Caution:
EPSON recommends the use of genuine EPSON ink cartridges. Other products not manufactured by EPSON may cause damage to your printer not covered by EPSON's warranties.

Do not use an ink cartridge if the date on the package has expired.

Mechanical

Paper feed method	Friction
Paper path	Sheet feeder, rear entry
Sheet feeder capacity	100 sheets at 17 lb (64 g/m^2) paper
Dimensions	
Storage	Width: 16.9 inches (429 mm) Depth: 9.2 inches (234 mm) Height: 6.4 inches (162 mm)
Printing (standard)	Width: 16.9 inches (429 mm) Depth: 22.9 inches (582 mm) Height: 12.1 inches (307 mm)
Printing (on transparencies)	Width: 16.9 inches (429 mm) Depth: 26.1 inches (664 mm) Height: 7.7 inches (196 mm)
Weight	11.5 lb (5.2 kg) without the ink cartridges

Electrical

Specification	**120 V Model**	**220–240 V Model**
Input voltage range	99 to 132 V	198 to 264 V
Rated frequency range	50 to 60 Hz	
Input frequency range	49.5 to 60.5 Hz	
Rated current	0.4 A	0.2 A
Power consumption	Approx. 15 W (ISO/IEC 10561 Letter Pattern) Approx. 5 W in standby mode (120 V model) Approx. 5.5 W in standby mode (220–240 V model)	

This product is also designed for IT power system phase-to-phase voltage 220–240 V.

Note:
Check the label on the back of the printer for the voltage of your printer.

Environmental

Temperature

Operation	50 to 95 °F (10 to 35 °C)
Storage*	–4 to 140 °F (–20 to 60 °C) 1 month at 104 °F (40 °C) 120 hours at 140 °F (60 °C)

Humidity (without condensation)

Operation	20 to 80% RH
Storage*	5 to 85% RH

*Stored in shipping container

Safety Approvals

Safety standards	UL 1950 with D3, CSA C22.2 No. 950 with D3
EMC	FCC part 15 subpart B class B, CSA C108.8 class B

Initialization

The printer can be initialized (returned to a fixed set of conditions) in these ways:

Hardware initialization	* The printer is turned on. * The printer receives an $\overline{\text{INIT}}$ signal from the parallel interface.
Software initialization	* Software sends an ESC @ (initialize the printer) command.

Hardware initialization

When the printer is turned on, the printer mechanism is initialized and the input data buffer and print buffer are cleared. Printer settings are returned to their default values. However, the printer mechanism is not initialized if the printer is turned on within ten seconds after turning it off. In this case, the printer caps the print head, and ejects any paper in the paper path.

Software initialization

Software initialization clears the print buffer and returns printer settings to their default values. However, it does not initialize the printer mechanism or clear the data buffer.

Interface

Your printer is equipped with an 8-bit parallel interface and a serial interface.

Parallel interface

The built-in parallel interface has the following characteristics:

Forward channel

Data format: 8-bit parallel, IEEE-1284 compatibility mode

Synchronization: $\overline{\text{STROBE}}$ pulse

Handshake timing: BUSY and $\overline{\text{ACKNLG}}$ signals

Signal level: TTL compatible

Connector: 57-30360 Amphenol connector or equivalent

Reverse channel

Transmission mode: IEEE-1284 Nibble mode

Adaptable connector: 57-30360 Amphenol connector or equivalent

Synchronization: Refer to the IEEE-1284 specification

Handshaking: Refer to the IEEE-1284 specification

Signal level: IEEE-1284 Level 1 device

Data transmission timing: Refer to the IEEE-1284 specification

Serial interface

The printer's built-in serial interface is based on the RS-423 standard. This interface has the following characteristics:

Standard: Based on RS-423

Synchronization: Synchronous

Bit rate: Approx. 1.8 Mbps

Handshaking: X-ON/X-OFF and DTR protocol

Word format:
- Data bit: 8 bits
- Parity bit: None
- Start bit: 1 bit
- Stop bit: 1 bit

Connector

8-pin mini-DIN

Recommended cable

Apple System Peripheral-8 cable (part number M0197)

Glossary

banding The horizontal lines that sometimes appear in a printed image. See also *MicroWeave*.

bidirectional Moving the print head from left to right and right to left, for faster output.

buffer The portion of the printer's memory used to store data before printing it.

character table A collection of letters, numbers, and symbols that provides you with the characters used in a particular language.

CMYK Cyan (blue-green), magenta, yellow, and black. These colored inks are used to create printed colors. The addition of light magenta and light cyan increases the accuracy of photographic images for virtual continuous-tone printing.

ColorSync Macintosh software that is designed to help you get WYSIWIG (what you see is what you get) output. This software prints colors as you see them on your screen.

default A value or setting that takes effect when the equipment is turned on, reset, or initialized.

dithering A halftoning method in which dots are arranged in an orderly pattern. Dithering works best for printing images with solid colors, such as charts and graphs. See also *halftoning*.

dpi Dots per inch. The dpi measures the resolution. See also *resolution*.

driver A software program that sends instructions to a computer device to tell it what to do. For example, your printer driver accepts print data from your image processing application and sends instructions to the printer on how to print this data.

Error Diffusion This halftoning setting smooths out edges by randomly placing dots of varying colors. This has the opposite effect of the Finest Detail setting.

ESC/P Raster A version of the ESC/P (Epson Standard Code for Printers) command language, which gives you control of your printer from your computer. Commands in this language produce enhanced graphics printing.

Finest Detail This setting automatically makes your printed images sharper and clearer. This has the opposite effect of the Error Diffusion setting. Be aware that this may increase the time required for printing.

font A style of type designated by a name.

gamut The range of colors that a device (such as a printer or monitor) can accurately reproduce.

grayscale A scale of shades of gray from black to white. Grayscale is used to represent colors when printing with black ink only.

halftoning A method of using dot patterns to represent an image. Halftoning makes it possible to produce varying shades of gray using only black dots, or a nearly infinite array of colors using only a few colors of dots.

host system The computer connected directly to the printer in a network.

initialization Process that returns the printer to its defaults (fixed set of conditions). This happens every time you turn on or reset the printer.

ink jet A method of printing in which images, lines, letters, or symbols are formed by precisely spraying ink onto paper.

interface The connection between the computer and a peripheral such as a printer. Some printers have two interfaces, parallel and serial. A parallel interface transmits data one byte, or eight bits, at a time. A serial interface transmits data one bit at a time.

media Materials upon which data is printed, such as envelopes, plain paper, special paper, and transparencies.

Micro Piezo Ink jet technology that uses an electronic pulse to precisely force the ink through the print head. This results in smaller, cleaner dots, sharp lines, and crisp text.

MicroWeave Printing technology that produces images in fine increments to reduce the possibility of banding. See also *banding*.

parallel interface See *interface.*

print queue Print jobs that are sent to the printer while it is busy are stored in a waiting line, or print queue, until they can be printed.

print server The computer connected to the printer. It receives the jobs and then distributes them to the assigned printer. It also holds extra print jobs while the printer is busy. See also *print queue*.

printable area The area of a page on which the printer can print. It is smaller than the physical size of the page due to margins.

printer driver See *driver*.

RAM Random Access Memory. The area of your computer's memory that runs programs and stores data.

reset To return a printer to its defaults either by sending a command or an INIT signal, or by turning the printer off and then back on.

resolution The number of dots per inch used to represent an image.

ROM Read Only Memory. Memory area in your printer or computer that cannot be modified. ROM retains its contents when you turn off the printer or computer.

saturation The depth or vibrancy of a color; the amount of gray.

serial interface See *interface*.

spool The process by which the printer driver converts the print data into codes that your printer understands. This data is then sent to the printer directly or to the print server.

Spool Manager An EPSON software program that converts print data into codes that your printer understands. See also *spool*.

Status Monitor An EPSON software program that displays the printer's status, such as paper out or the amount of ink remaining before printing.

Index

A

Accessories, 6, 1-10, 5-4
Advanced mode, selecting, 2-2
Advanced Photo setting, 2-3
Advanced settings
  custom, 2-4 to 2-11, 2-34 to 2-35
  predefined, 2-2 to 2-4
Aligning print head, 5-8, 6-7
Automatic mode, 1-3, 1-8, 3-3

B

Background printing
  Macintosh, 4-14 to 4-15
  Windows 3.1, 4-11 to 4-13
  Windows 95, 4-5 to 4-10
Banding, 6-7
Banners, 3-8 to 3-12
Bitmap files, 2-25, 2-26
Blank pages, 6-19
Blurry printouts, 6-8
Brightness setting, 2-9

C

Cards, *see* Photo Quality Ink Jet Cards
Characters, garbled, 6-17 to 6-18
Cleaning
  print head, 5-1 to 5-4
  printer, 5-9
Cleaning sheets, 3-3, 5-1
Coated paper, 3-2
Collate setting, 2-14, 2-20
Color
  customizing, 2-8 to 2-10
  problems, 6-8 to 6-9
Color Adjustment modes, 2-8 to 2-10
Colorimetric setting, 2-11
ColorSync, 2-3, 2-8 to 2-11, 6-8
CompuServe, 5
Configuration options, 4-17
Contrast setting, 2-9
Control code, B-1
Control panel, 1-11 to 1-12, 5-3, 6-2 to 6-3, 6-9 to 6-11
Copies setting, 2-13
Custom settings
  changing, 2-34
  color, 2-8 to 2-10
  deleting, 2-35
  paper size, 2-15 to 2-16, 2-19, 3-8 to 3-12
  print quality, 2-4 to 2-7
  project types, 2-2 to 2-3
  saving, 2-33
  special effects, 2-4 to 2-7
Cyan setting, 2-9

D

Default printer options, setting, 1-4 to 1-5
Deleting custom settings, 2-35
Deleting print jobs
  Macintosh, 4-15
  Windows 3.1, 4-12
  Windows 95, 4-4
Despooler, 1-7, 4-11
Diagnosing problems, 6-1 to 6-6
Digital camera images, 1, 2-3
Dithering, 2-6
DMA transfer, 4-3
Draft printing, 2-3

E

Economy setting, 2-3, 2-6, 6-7
Electrical specifications, B-6
ENERGY STAR, 6
Energy-saving tips, 7

Envelopes
printing on, 3-2, 3-5
specifications, B-2 to B-4
Environmental specifications, B-7
EPSON
Accessories, 6, 1-10, 5-4
Customer Care Centers, 5
Electronic support services, 5 to 6
help, 5 to 6
media, 1-10, 3-2 to 3-3
World Wide Web site, 5
Error Diffusion setting, 2-6
ESC/P Raster control code, B-1

F

Film, *see* Photo Quality Glossy media
Fine Dithering setting, 2-6
Finest Detail setting, 2-7
Fit to Page setting, 2-23, 2-28 to 2-29
Flip Horizontal setting, 2-7, 3-3, 6-18
FTP, 5

G

Garbled characters, 6-17 to 6-18
Glossy media, *see* Photo Quality Glossy media

H

Halftoning setting, 2-6
Head Cleaning utility, 5-2
Help, EPSON, 5 to 6
Help, online, 1-2, 6-2
High Quality Ink Jet Paper
choosing, 1-10
printing on, 3-2
High Speed setting, 2-7, 6-7
Horizontal banding, 6-7

I

ICM (Image Color Matching), 2-3, 2-8 to 2-10
Index cards, *see* Photo Quality Ink Jet Cards
Initialization, B-7
Ink cartridge
outdated, 5-7 to 5-8, 6-7
replacing, 5-4 to 5-8, 6-7
specifications, B-5
Ink jet cards, *see* Photo Quality Ink Jet Cards
Ink jet paper
choosing, 1-10
printing on, 3-2
specifications, B-2 to B-3
Ink Jet Transparencies, *see* Transparencies
Ink level, 4-9, 4-16
Ink setting, 1-3, 1-9, 2-2, 2-6
Interface specifications, B-8
Internet, 5
Iron-On Transfer papers
choosing, 1-10
printing on, 2-7, 3-2
specifications, B-2 to B-3

J

Jammed paper, 1-11, 6-2, 6-16
Job Status window, 4-10
Journal files, 4-11, A-4

L

Labels, printing, 3-2
Landscape orientation, 2-14, 2-18, 3-11
Layout options
Macintosh, 1-9, 2-27 to 2-33
Windows, 1-3, 2-20 to 2-27
Lever, thickness, 3-2, 3-5
Lights, 1-11 to 1-12, 6-2 to 6-3, 6-9 to 6-11

M

Macintosh
managing print jobs, 4-13 to 4-17
Monitor3, 4-14 to 4-15, 6-13 to 6-15
printing from, 1-7 to 1-9
system requirements, 2 to 3
uninstalling software, 6-6
Magenta setting, 2-9
Maintaining printer, 5-1 to 5-9
Managing print jobs
Macintosh, 4-13 to 4-17
Windows 3.1, 4-11 to 4-13
Windows 95, 4-1 to 4-10
Windows NT, 4-13
Manuals, how to use, 3 to 4
Margins
incorrect, 6-18
with multiple sheets, 3-3, 3-8
Mechanical specifications, B-6
Media Type setting, 1-3, 1-9, 2-4, 2-6, 3-2 to 3-3, 3-6 to 3-7
Memory error, 6-13, 6-15
MicroWeave setting, 2-7
Mirror images, 2-7, 3-3, 6-18
Missing image, 6-18 to 6-19
Monitor3, 4-14 to 4-15, 6-13 to 6-15
Monitoring preferences, 4-6 to 4-7
More Settings dialog box, 2-5, 2-8
Moving printer, 5-9
Multiple print layouts
Macintosh, 2-30
Windows, 2-24

N

Network printing
Windows 3.1, A-3 to A-5
Windows 95, A-1 to A-3
Windows NT, A-5
No Halftoning setting, 2-6
Nozzle Check
pattern, 5-4, 6-4
utility, 5-2 to 5-4

O

Orientation setting, 2-14, 2-18, 3-11

P

Page frames
Macintosh, 2-30
Windows, 2-24
Page Order setting, 2-24, 2-30
Panoramic images
choosing paper, 1-10, 3-2
loading paper, 3-8 to 3-9
printing from Macintosh, 3-11 to 3-12
printing from Windows, 3-10 to 3-11
Paper
banner, 3-8 to 3-9
choosing, 1-10
coated, 3-2
glossy, *see* Photo Quality Glossy media
handling problems, 6-15 to 6-17
jams, 1-11, 6-2, 6-16
loading guidelines, 3-2 to 3-6
menu, 1-3, 1-8, 3-10
options, 2-12 to 2-20
photo, *see* Photo paper
plain, 3-2
specifications, B-2 to B-4
support, 3-8 to 3-9
thickness lever, 3-2, 3-5
types, 1-3, 1-9 to 1-10
Paper sizes
available in Windows, 2-13
available on Macintosh, 2-17
custom, 2-15 to 2-16, 2-19, 3-8 to 3-12
Perceptual setting, 2-11
Photo paper
choosing, 1-10
printing on, 3-2, 3-6 to 3-12
specifications, B-2 to B-4

Photo Quality Glossy media
choosing, 1-10
printing on, 3-2
specifications, B-2 to B-3
Photo Quality Ink Jet Cards
choosing, 1-10
printing on, 3-2, 3-6
specifications, B-2 to B-3
Photo Quality Ink Jet media
choosing, 1-10
printing on, 3-2, 3-6
specifications, B-2 to B-3
Photo Quality Self Adhesive Sheets
choosing, 1-10
printing on, 3-2
specifications, B-2 to B-3
Photo setting, 2-3
Photo stickers
choosing, 1-10
printing on, 3-3
specifications, B-2 to B-3
PhotoEnhance, 1, 2-3, 2-10
PICT files, 2-31
Plain paper, 3-2
Portrait orientation, 2-14, 2-18, 3-11
Predefined advanced settings, 2-2 to 2-4
Print head
aligning, 5-8, 6-7
cleaning, 5-1 to 5-4
Print jobs, managing
Macintosh, 4-13 to 4-17
Windows 3.1, 4-11 to 4-13
Windows 95, 4-1 to 4-10
Windows NT, 4-13
Print layout options
Macintosh, 2-27 to 2-33
Windows, 2-20 to 2-27
Print Order options, 2-20
Print quality
customizing, 2-4 to 2-7
problems, 6-7 to 6-9
Print Quality setting, 2-6, 3-3
Print speed, B-1
Printable area
setting, 2-14, 2-18, 3-7, 6-18
specifications, 3-7, B-3 to B-4
Printer
cleaning, 5-9
moving, 5-9
Printer and Option Information utility, 6-4 to 6-5
Printer Information tab, 4-9
Printer operation check, 6-3 to 6-4
Printer software
accessing, 1-2, 1-5, 1-8
problems, 6-12 to 6-14
uninstalling, 6-5 to 6-6
Printer status
checking, Macintosh, 4-13 to 4-16
checking, Windows, 1-6 to 1-7, 4-1 to 4-13
window, 4-8 to 4-9
Printing specifications, B-1
Problems
diagnosing, 6-1 to 6-6
paper handling, 6-15 to 6-17
print quality, 6-7 to 6-9
printer software, 6-12 to 6-14
printing, 6-9 to 6-11
slow printing, 6-15
solving, 6-1 to 6-19
Status Monitor, 6-12
unexpected printout results, 6-17 to 6-19
Progress Meter, 1-6, 4-1 to 4-3
Project types, 2-2 to 2-3
Proportional printing, 2-13, 2-21 to 2-23, 2-28 to 2-29

Q

Quality/Speed setting, 1-3, 1-9

R

ReadMe files, 6-2
Rendering Intent setting, 2-11
Replacing ink cartridges, 5-4 to 5-8
Resolution, *see* Print quality
Reverse Order setting, 2-14, 2-20
Rotate by 180° setting, 2-12, 2-14, 2-18

S

Safety
  approvals, B-7
  instructions, 7 to 9
Saturation setting, 2-9, 2-11
Saving custom settings, 2-33
ScanDisk, 6-12
Scanned images, 2-3
Self adhesive sheets, *see* Photo Quality Self Adhesive Sheets
Self test, 6-3 to 6-4
Service, 5 to 6
Slow printing, 6-15
Smears, 3-5, 6-8
Special effects, 2-4 to 2-7
Special media, 3-1 to 3-8
Specifications
  electrical, B-6
  environmental, B-7
  initialization, B-7
  ink cartridge, B-5
  interface, B-8
  mechanical, B-6
  paper, B-2 to B-4
  printing, B-1
  safety approvals, B-7
Speed & Progress options, 4-1 to 4-3
Spool directory, 4-12
Spool Manager
  problems, 6-10, 6-13, 6-17
  Windows 3.1, 4-11 to 4-13
  Windows 95, 4-4
Status Alert dialog box, 4-6 to 4-7
Status Monitor
  Macintosh, 4-16
  problems, 6-12
  Windows, 1-6, 4-5 to 4-10
Stickers, *see* Photo stickers
Super MicroWeave setting, 2-7
Support, 5 to 6
System requirements
  Macintosh, 2 to 3
  Windows, 2

T

Testing printer, 6-3 to 6-4
Text setting, 2-3
Text/Graph setting, 2-3
Thickness lever, 3-2, 3-5
Transparencies
  choosing, 1-10
  printing on, 3-3, 3-8
  specifications, B-2 to B-3
Transporting printer, 5-9
Troubleshooting, 6-1 to 6-19

U

Uninstalling printer software
  Macintosh, 6-6
  Windows 3.1, 6-6
  Windows 95, 6-5
User Defined paper sizes, 2-15 to 2-16, 2-19, 3-10 to 3-12
Utilities
  Configuration, 4-17
  Head Cleaning, 5-2
  Nozzle Check, 5-2 to 5-4
  Print Head Alignment, 5-8
  Printer and Option Information, 6-4 to 6-5
  Status Monitor, 1-6, 4-5 to 4-10, 4-16, 6-12

V

Video camera images, 2-3

W
Watermark
Macintosh, 2-31 to 2-33
Windows, 2-25 to 2-27
Windows
managing print jobs, 4-1 to 4-13
printer status, checking, 1-6 to 1-7
printing from, 1-1 to 1-4
Spool Manager, 4-4, 4-11 to 4-13
system requirements, 2
uninstalling printer software, 6-5 to 6-6
World Wide Web, 5

Y
Yellow setting, 2-9